

Adhesive Selection Guide



Adhesive Descriptions

Adhesive #	Comment/End Use
A-32	Permanent acrylic adhesive with medium tack
	and high shear. Bonds well to glass, low- and
	high-surface energy plastics, making it ideal for
	food and beverage labeling. Excellent clarity and
	wet-out characteristics
Δ-32RW	Reworkable acrylic adhesive with low tack and
71 521100	high shear. Designed for high speed dispensing
	applications requiring rework time. Ideal for feed
	applications requiring rework time. Ideal for food
A 50	and beverage labelling.
A-58	Removable acrylic adnesive with low-medium
	tack and medium shear. Designed for bus poster
	applications. Cleanly removable for up to one
	year from most smooth OEM surfaces. Will not
	damage paint on sound* OEM or
	repainted bus surfaces.
A-69	Removable/repositionable acrylic adhesive with
	very low tack and medium-high shear. Designed
	for bus wrap applications. Cleanly removable for
	up to one year from most smooth OEM surfaces.
	Will not damage paint on sound* OEM
	or repainted bus surfaces.
A-81	Permanent acrylic adhesive with low tack and
7.01	high shear. Designed for food and hoverage
	applications requiring good flow out
A 107	Depositionable permanent aprilia adhesiya with
A-107	Repositionable permanent acrylic adhesive with
1 100	low tack and high shear.
A-109	Low adhesion removable acrylic adhesive with
	low tack and high shear. Offers clean
	removability when used with suggested
	overlaminates. Designed for graphic advertising
	for floors. Bonds well to ceramic, concrete,
	linoleum and lumber/wood surfaces.
A-120	Permanent acrylic adhesive with medium-high
	tack and medium shear. Designed for carpet
	graphics applications requiring good adhesion
	and tack.
A-136	Permanent acrylic adhesive with medium tack
	and high shear. Designed for full squeeze tube
	applications. Bonds well to low- and high-surface
	energy plastics without lifting, tunneling or
	flagging.
A-197	Permanent acrylic adhesive with medium tack
	and medium shear. Designed for automotive
	battery label applications requiring good balance
	of properties. Bonds well to low-surface energy
	plastics
Δ-208	Permanent acrylic adhesive with medium tack
11200	and high shear. Designed for heverage labeling
	Bonds wall to glass, low, and high surface
	operay plastics without lifting tuppoling or
	flagging Also used as an overlaminating
	adbasivo
A 247	auricsive.
H-30/	Permanent rupper based adnesive with high tack
	and low snear. Designed for outdoor walkway
	graphics applications. Bonds well to unsealed
	aspnalt and concrete.
A-483	Permanent acrylic adhesive with medium tack
	and medium high shear. Designed for
	applications requiring high temperature
	resistance. High shear adhesive results in less
	oozing, edge lifting and shifting.

Adhesive #	Comment/End Use
A-787	Removable acrylic adhesive with low tack and
	low-medium shear. Designed for bus poster
	applications. Cleanly removable for up to one
	year from most smooth OEM surfaces without
	damaging the paint on sound OEM* or repainted
	bus surfaces.
Densil®	High performance permanent silicone adhesive
	with very low tack and high shear. Designed for
	applications requiring very high temperature
	resistance.
L-24S	Permanent acrylic adhesive with medium-high
	tack and medium shear. Designed for
	applications requiring good shrinkage and
	chemical resistance in UL recognized products.
	"L" denotes that the adhesive is part of a UL
	recognized product construction.
L-25	Permanent acrylic adhesive with medium-high
	tack and medium shear. Designed for
	applications requiring good shrinkage and
	chemical resistance in UL recognized products.
	L denotes that the adhesive is part of a UL
	recognized product construction.
L-44	Clear overlaminating permanent acrylic adhesive
	with medium tack and medium-nigh shear.
	Designed for applications requiring UL
	denotes that the adhesive is part of a UI
	recognized product construction
1-16	Permanent acrylic adhesive with medium-high
L-40	tack and medium shear. Designed for
	applications requiring good shrinkage and
	chemical resistance in LIL recognized products
	"I " denotes that the adhesive is part of a III
	recognized product construction.
LTS-1	High performance permanent silicone adhesive
	with medium-high tack and very high shear.
	Designed for applications requiring cold
	temperature resistance.
V-10 & L-10	Permanent acrylic adhesive with medium tack
	and medium shear. Designed for applications
	requiring protection from ultraviolet light. Resists
	temperature extremes, abrasion and chemical
	exposure for maximum label protection. Also
	used as an overlaminating adhesive. "L" denotes
	that the adhesive is part of a UL recognized
V 12	Digmonted normanent actuatic adhesive with
V-12	modium tack and modium shoar. Available in a
	variety of custom colors for use in transfer tane
	annlications
V-20	Permanent acrylic adhesive with medium tack
120	and medium shear. Designed for applications
	requiring economical product with good
	adhesion and good shrinkade resistance.
V-22 & L-22	Clear overlaminating permanent acrylic adhesive
	with medium-high tack and medium shear. "L"
	denotes that the adhesive is part of a UL
	recognized product construction.
V-23 & L-23	Permanent acrylic adhesive with medium-high
	tack and medium shear. Designed for
	applications requiring good shrinkage and
	chemical resistance. "L" denotes that the
	adhesive is part of a UL recognized product
	construction.

[•] Sound paint is defined as possessing a 20 lb. per inch minimum peel bond between the paints and the paint-receptive surface

Adhesive Descriptions

V-29 & L-29 Permanent acrylic adhesive with medium tack and high shear. Designed for applications requiring clarity, excellent adhesive flow out, high shear, excellent plasticizer, and shrinkage and chemical resistance. Also used as an overlaminating adhesive. "L" denotes that the adhesive is part of a UL recognized product construction. V-32 Permanent acrylic adhesive with medium tack and high shear. Bonds well to glass, low- and high-surface energy plastics without lifting, tunneling or flagging. Offers excellent clarity and wet-out characteristics. V-38 Removable acrylic adhesive with medium tack and medium shear. Designed for non-critical removable label applications, such as shelf marking. V-58 General purpose removable acrylic adhesive with low tack and low shear. Designed for removable applications such as removable/changeable decals. Provides a good bond with little or no adhesive residue upon removal. V-63 Permanent UV resistant overlaminating acrylic adhesive with medium tack and high shear. Designed for applications requiring protection of printed graphics from ultraviolet light. Used in retail/P-O-Pitradeshow graphics and displays. V-66 & L-66 Permanent acrylic adhesive with medium-high tack and medium shear. Designed for applications requiring good shrinkage and chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. V-68 General purpose removable/repositionable acrylic adhesive with how tack and low shear. Designed for removable applications, such as removable shelf marking labels. V-80 Clear permanent acrylic adhesive with wedi and tack and medium shear. Designed for appl	Adhesive #	Comment/End Use
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Bonds well to low-surface energy plastics, ideal		adhesive with very high tack and medium shear.
for hattery label applications		Bonds well to low-surface energy plastics, ideal
ioi natiety ianei applications.		for battery label applications.

V/OF	
V-90	Permanent acrylic adhesive with low tack and
	high shear. Designed for applications requiring
	autoclaving and chemical resistance adhesives.
	such as on glass and plastic vials. Provides
	excellent clarity, wet-out characteristics and
	resistance to product contents
V-122 &	Clear overlaminating permanent acrylic adhesive
1 122 0	with modium high tack and low shoar. Designed
L-122	for applications requiring a clear overlaminating
	for applications requiring a clear overlaininating
	adnesive with good adnesive how out. "L"
	denotes that the adhesive is part of a UL
	recognized product construction.
V-124	Clear permanent acrylic adhesive with medium
	tack and medium shear. Designed for
	applications requiring cold temperature
	resistance.
V-126	Permanent acrylic adhesive with medium tack
	and very high shear. Bonds well to a variety of
	surfaces, ideal for stickers and decals.
V-130	High-performance permanent acrylic adhesive
	with medium tack and high shear. Designed for
	applications requiring resistance to high
	temperatures. Bonds well to metal and paint.
V-133	Removable/repositionable acrylic adhesive with
	medium tack and high shear. Designed for
	removable and resealable applications.
V-156	Permanent acrylic adhesive with very high tack
	and low shear. Designed for applications such
	as pharmaceutical and tamper-evident labels
	Good cold temperature chemical and humidity
	resistance "I " denotes that the adhesive is part
	of a LLL recognized product construction
V 157 &	Dormanont acrylic adhosiyo with modium tack
V-157 Q	and modium low shear. Designed for
L-107	and medium-low shear. Designed for
	applications requiring a multi-purpose
	economical permanent aunesive. Also used as
	all overlaininating autesive. L'ueriotes that the
	adnesive is part of a UL recognized product
1/ 17/	CONSTRUCTION.
1 1/-1/6	Permanent acrivite annesive with very high tack
V 170	
V 170	and low shear. Designed for applications
VIIIO	and low shear. Designed for applications requiring soft adhesive with good flow and good
V 170	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics.
V-224 &	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high
V-224 & L-224	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose
V-224 & L-224	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications
V-224 & L-224	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds
V-224 & L-224	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good
V-224 & L-224	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the
V-224 & L-224	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product
V-224 & L-224	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction.
V-224 & L-224	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available
V-224 & L-224	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors.
V-224 & L-224 V-224X	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium
V-224 & L-224 V-224X V-232	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium tack and high shear. Designed for
V-224 & L-224 V-224X V-232	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium tack and high shear. Designed for pharmaceutical label applications requiring
V-224 & L-224 V-224X V-224X	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium tack and high shear. Designed for pharmaceutical label applications requiring autoclaving. Offers excellent clarity and wet-out
V-224 & L-224 V-224X V-232	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium tack and high shear. Designed for pharmaceutical label applications requiring autoclaving. Offers excellent clarity and wet-out characteristics
V-224 & L-224 V-224X V-232	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium tack and high shear. Designed for pharmaceutical label applications requiring autoclaving. Offers excellent clarity and wet-out characteristics.
V-224 & L-224 V-224X V-232 V-233	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium tack and high shear. Designed for pharmaceutical label applications requiring autoclaving. Offers excellent clarity and wet-out characteristics. Removable acrylic adhesive with medium tack and high shear. Designed for removable and
V-224 & L-224 V-224X V-232 V-233	and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium tack and high shear. Designed for pharmaceutical label applications requiring autoclaving. Offers excellent clarity and wet-out characteristics. Removable acrylic adhesive with medium tack and high shear. Designed for removable and resealable anplications
V-224 & L-224 V-224X V-232 V-233	 and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium tack and high shear. Designed for pharmaceutical label applications requiring autoclaving. Offers excellent clarity and wet-out characteristics. Removable acrylic adhesive with medium tack and high shear. Designed for removable and resealable applications.
V-224 & L-224 V-224X V-232 V-233	 and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium tack and high shear. Designed for pharmaceutical label applications requiring autoclaving. Offers excellent clarity and wet-out characteristics. Removable acrylic adhesive with medium tack and high shear. Designed for removable and resealable applications.
V-224 & L-224 V-224X V-232 V-233	 and low shear. Designed for applications requiring soft adhesive with good flow and good bond to a variety of fabrics. Permanent acrylic adhesive with medium-high tack and low-medium shear. Ideal multi-purpose economical option designed for applications requiring a good balance of properties. Bonds well to a variety of surfaces and offers good chemical resistance. "L" denotes that the adhesive is part of a UL recognized product construction. Pigmented permanent acrylic adhesive available in a variety of custom colors. Permanent acrylic adhesive with low-medium tack and high shear. Designed for pharmaceutical label applications requiring autoclaving. Offers excellent clarity and wet-out characteristics. Removable acrylic adhesive with medium tack and high shear. Designed for removable and resealable applications.

Adhesive Descriptions

Adhesive #	Comment/End Use
V-253X	Pigmented permanent acrylic adhesive with
	medium tack and medium shear. Available in a
	variety of custom colors, ideal for sticker and
	decal applications.
V-302LP	Removable acrylic adhesive with low tack and
	low shear. Used in applications for
	retail/P-O-P/tradeshow displays and graphics.
V-302ULP	Ultra low adhesion removable acrylic adhesive
	with very low tack and low shear.
V-304	Permanent acrylic adhesive with medium-high
	tack and medium shear. Designed for general
	purpose transfer tapes requiring good adhesion
	and chemical resistance.
V-305 &	High performance permanent acrylic adhesive
L-305	with low tack and high shear. Designed for
	membrane switch applications. Can be
	repositioned within first few minutes of
	application for easy correction of assembly
	mistakes. "L" denotes that the adhesive is part of
	a UL recognized product construction.
V-312	Low adhesion removable acrylic adhesive with
	low tack and high shear.
V-314	Low adhesion removable acrylic adhesive with
	very low tack and low shear.
V-327	Low adhesion repositionable/removable acrylic
	adhesive with low tack and medium shear. Ideal
	for retail/P-O-P/tradeshow applications and
	window advertising. Removes cleanly with little
1/ 220	or no adhesive residue.
V-330	Removable/repositionable acrylic adhesive with
	medium tack and medium snear. Designed for
1/ 2/4 0	snell-marking labels.
V-344 &	Permanent acrylic adnesive with high tack and
L-344	requiring good shripkage and shemical
	regularity your statisticate and chemical
	surfaces and resists cold flow and ease "I"
	denotes that the adhesive is part of a LI
	recognized product construction
V-344DI	Permanent acrylic adhesive with medium-high
VJHDL	tack and medium shear. Designed for drum
	labeling applications can be applied at low
	temperatures. Resists cold flow and ooze.
	gaining efficiencies in diecutting and dispensing.
V-367	Permanent rubber based adhesive with high tack
	and low shear. Designed for LSE and other
	difficult to adhere to surfaces.
V-378 &	Permanent acrylic adhesive with very high tack
L-378	and low shear. Ideal for a variety of low-surface
	energy plastics. "L" denotes that the adhesive is
	part of a UL recognized product construction.
V-402 &	Permanent acrylic adhesive with low tack and
L-402	high shear. Designed for applications requiring
	resistance to high temperatures, ideal for printed
	circuit board labels. "L" denotes that the
	adhesive is part of a UL recognized product
	construction.
V-417	Permanent acrylic adhesive with high tack and
	high shear. Designed for high performance
	transfer tape applications.
V-454	Low adhesion removable acrylic adhesive with
	low tack and low shear.
1	

Adhesive #	Comment/End Use
V-465	Permanent acrylic adhesive with low-medium tack and low-medium shear. Designed for applications requiring an economical general purpose adhesive. Also used as an overlaminating adhesive.
V-606 & L-606	Permanent acrylic adhesive with medium tack and high shear. Designed for applications requiring good adhesion to polypropylene and polyethylene, as well as chemical resistance. Ideal for use on rough textured surfaces. "L" denotes that the adhesive is part of a UL recognized product construction.
V-778	Permanent acrylic adhesive with high tack and medium shear. Used in applications for automotive underhood labels.

Adhesive Performance

ADHESI & CODE	VE TYPE NUMBER	BAS Pi	IC ADH Roper	IESION Ties		ENVIRO PERFO	NTAL NCE	RAN	TEI Nge on	MPER I STAI	ATURE NLESS	STEEL	RECOMMENDATIONS	KEY FEATURES	
TYPE	CODE NO	Tack		Shear	CHFMI	Resist	tance	to: HUMIDITY	٩F	(°C)	٩F	High (°C)	ு Min. App. Temp.		
ACRYLIC	V-10	3	3 5	M	5	5	5	5	-40°	(-40°)	302°	(150%)	50° (10°)	Not for FLV or PLV vinvl	Clear good plasticizer resistance
	1-10 [†]	3	3 5	M	5	5	5	5	-40°	(-40°)	302°	(150°)	50° (10°)	Not for ELV or PLV vinyl	Clear, good plasticizer resistance
	V-12•	3	2 4	M	4	3-4	4	4	-40°	(-40°)	302°	(150°)	50° (10°)		White opaque, general purpose
	V-22	4	3 4	M	5	5	5	6	-40°	(-40°)	302°	(150°)	32° (0°)		Ultraclear for overlaminating
	L-22 [†]	4	3 4	M	5	5	5	6	-40°	(-40°)	302°	(150°)	$32^{\circ} (0^{\circ})$	Not for use on vinvl	Ultraclear for overlaminating
	V-23 (P) ³	4	3 5	M	5	5	5	6	-40°	(-40°)	302°	(150°)	50° (10°)	Not for use on vinyl	General purpose
	L-23 [†]	4	3 5	M	5	5	5	6	-40°	(-40°)	302°	(150°)	50° (10°)	Not for use on vinvl	for non-plasticized films
	V-23 (V) ⁴	3	3 4	M	5	4	4	6	-40°	(-40°)	302°	(150°)	50° (10°)		General purpose for plasticized vinvl
	L-24S [†]	3	3 5	M	4	5	5	5	-40°	(-40°)	176°	(80°)	50° (10°)	For sheet form	General purpose for plasticized vinyl
	V-29	3	3 5	Н	5	6	5	6	-40°	(-40°)	302°	(150°)	50° (10°)		Excellent plasticizer resistance;
										()		()	. ,		autoclavable
	L-29 [†]	3	3 5	H	5	6	5	6	-40°	(-40°)	302°	(150°)	50° (10°)		Excellent plasticizer resistance;
										()		,	. ,		autoclavable; overlaminating
	A-32	3	3 4	Н	5	5	4	5	-40°	(-40°)	302°	(150°)	50° (10°)		General purpose; glass bottle;
										,		. ,			passes ice chest and pasteurization
	V-32	3	3 4	H	5	5	4	5	-40°	(-40°)	302°	(150°)	50° (10°)		General purpose; prime label
	A-32RW	2	2 4	Н	5	5	4	5	-40°	(-40°)	302°	(150°)	50° (10°)		Good open/rework time;
															general purpose; glass bottle
	V-38	3	2 4	M	5	4	4	6	-40°	(-40°)	302°	(150°)	50° (10°)	For sheet form	Semi-removable for shelf marking
	L-44 [†]	4	3 4	M	5	5	5	6	-40°	(-40°)	302°	(150°)	32° (0°)		Ultraclear for overlaminating
	L-46 [†]	4	3 5	M	5	5	5	6	-40°	(-40°)	302°	(150°)	50° (10°)	Not for use on vinyl	General purpose for non-plasticized
															films
	A-58	2	1 3	L	5	4	5	6	-20°	(-29°)	302°	(150°)	50° (10°)	For use on vinyl	Removable, bus signage
	V-58	2	1 3	L	5	4	5	6	-20°	(-29°)	302°	(150°)	50° (10°)	For use on vinyl	General purpose, removable
	V-63	3	3 5	H	5	6	5	6	-40°	(-40°)	302°	(150°)	50° (10°)		UV resistant; overlaminating
	V-66	4	4 6	M	5	5	5	6	-40°	(-40°)	302°	(150°)	50° (10°)	Not for use on vinyl	Medium to high tack; general
															purpose
	V-68	2	1 3	L	5	4	5	6	-20°	(-29°)	302°	(150°)	50° (10°)	For use on vinyl	Removable for shelf marking
	A-69	1	1 1	M-H	1	3	2	3	-20°	(-29°)	302°	(150°)	50° (10°)		Removable, bus wrap
	A-81	2	2 3-4	4 H	4	2	5	3	-40°	(-40°)	176°	(80°)	50° (10°)		General purpose, passes ice chest a
															and low-temp pasteurization
	V-81	2	2 4	<u>M-H</u>	4	4	5	3	-40°	(-40°)	176°	(80°)	50° (10°)		General purpose, prime label
	V-94	2	3 4	M	6	6	5	6	-40°	(-40°)	302°	(150°)	50° (10°)	Not for plasticized film	Permanent for acrylic films
	V-95	2	2 4	H	6	5	6	5	-40°	(-40°)	302°	(150°)	50° (10°)	Not for plasticized film	Clear, high temp.; autoclavable
	A-109	1-2	1 1	<u>M</u>		3	2	1	-40°	(-40°)	302°	(150°)	50° (10°)		Cleanly removable for floor graphics
	V-122	4	3 5		5	4	5	4	-40°	(-40°)	302°	(150°)	50° (10°)	Not for use on vinyl	Ultraclear for overlaminating
	L-122 ^T	4	3 5	L	5	4	5	4	-40°	(-40°)	302°	(150°)	50° (10°)	Not for use on vinyl	Ultraclear for overlaminating
	V-126	3	3 5	H	6	4	6	5	-40°	(-40°)	302°	(150°)	50° (10°)		High performance

ADHESIVES COATED AT 1.0 MIL (25 MICRONS) THICKNESS AND TESTED ON 2.0 MIL (51 MICRONS) CLEAR POLYESTER FILM. EXCEPTIONS INCLUDE: 1-24S AND L-26 WERE TESTED ON 3.5 MIL (89 MICRONS) WHITE VINYL, A-81 AND V-81 WERE TESTED ON 2.0 MIL HARD CLEAR POLYPROPYLENE. SEE PAGE 5 FOR SPECIFIC TEST METHODS USED.

¹ Initial peel - 15 minute dwell time on stainless steel panel at room temperature ² Ultimate peel - 72 hour dwell time on stainless steel panel at room temperature ³ (P) for polyester films ⁴ (V) for vinyl films

t*L" adhesives denote UL-Recognized adhesives. "L" adhesives listed on this chart may not be UL Recognized for listed temperature range and surface. "L" adhesives are included on this chart to compare performance values to our "V" adhesives only. Please reference our UL Guide for specific UL Recognition for these "L" adhesives. FLEXcon products are also listed under UL file numbers MH10170 and MH16635(N). A variety of FLEXcon products have CSA acceptance, and/or CUL acceptance. Please contact your Business Team for more information.
 Adhesive can be ordered as a laminating adhesive.

Tack	Peel	Shear	Chemical, Heat and Humidity	Ratings
1 Very Low 0 up to 100 g/sq.cm. 2 Low 101 up to 400 g/sq.cm.	1 Very Low 0 up to 14 oz/in (0-154 N/m) 2 Low 15 up to 34 oz/in (165-374 N/m)	L = Low <10 hrs M = Medium >10 <100 hrs	1 Poor More than 50% adhesion loss 2 Fair 20 to 50% adhesion loss	Chemical Resistance: Overall average of Peel Performance retained after exposure to chemicals vs. 72 hrs. on Stainless Steel panel at room temperature.
3 Medium 401 up to 550 g/sq.cm. 4 Medium High 551 up to 700 g/sq.cm. 5 High 701 up to 800 g/sq.cm. 6 Very High More than 801 g/sq.cm.	3 Medium 35 up to 54 oz/in (385-594 N/m) 4 Medium High 55 up to 74 oz/in (605-814 N/m) 5 High 75 up to 94 oz/in (825-1034 N/m) 6 Very High More than 95 oz/in (1045 N/m)	H = High >100 hrs	3 Good 10 to 20% adhesion loss 4 Very Good 5 to 10% adhesion loss 5 Excellent -5 to +5% adhesion change 6 Superior +5% adhesion gain	Cleaning Solutions: Isopropyl Alcohol • Gasoline • Toluene • Oil (SAE 10W-30) • Acetic Acid (5%) • Water Humidity Resistance: Overall average of Peel Performance retained after exposure to 100°F and 95% RH for 1 Day and 1 Week vs. 72 hrs. on Stainless Steel panel at room temperature.

Adhesive Performance

ADHESI & CODE	VE TYPE NUMBER	BAS Pi	IC A Rop	DHES	SION Es	E	NVIRO PERFO	NMEN RMAI	NTAL NCE	RA	TE NGE OI	MPER/ N STAI	ATURI	E 6 ste	EL	RECOMMENDATIONS	KEY FEATURES
		Tack		reel	Shear		Resist	ance	to:		Low	-	HIGN	Min.	App. Temp.		
TYPE	CODE NO.		INIT	ULT ²		CHEMIC	AL UV	HEAT	HUMIDITY	°F	(°C)	°F	(°C)	°F	(°C)		
ACRYLIC	A-136	3	3	4	Н	5	5	4	5	-40°	(-40°)	302°	(150°)	50°	(10°)		Aggressive, high-performance for full-squeeze tube
	V-156	6	3	5	L	5	5	5	5	-40°	(-40°)	302°	(150°)	32°	(0°)		Very aggressive, low temperature
	L-156 [†]	6	3	5	L	5	5	5	5	-40°	(-40°)	302°	(150°)	32°	(0°)		Very aggressive, low temperature
	V-157	4	4	5	L	4	4	5	4	-40°	(-40°)	257°	(125°)	50°	(10°)	Not for use on vinyl	Ultraclear for overlaminating
	L-157 [†]	4	4	5	L	4	4	5	4	-40°	(-40°)	257°	(125°)	50°	(10°)	Not for use on vinyl	Ultraclear for overlaminating
	V-176	6	5	6	L	5	5	5	5	-40°	(-40°)	302°	(150°)	32°	(0°)		Very aggressive, acid free
	V-224	3-4	4	5	L-M	5	5	4	5	-40°	(-40°)	302°	(150°)	50°	(10°)		General purpose
	L-224 [†]	3-4	4	5	L-M	5	5	4	5	-40°	(-40°)	302°	(150°)	50°	(10°)		General purpose
	V-232	3	3	4	Н	5	5	4	5	-40°	(-40°)	302°	(150°)	50°	(10°)		Pharmaceutical; autoclavable
	V-253X	3	2	4	М	4	3-5	4	5	-40°	(-40°)	302°	(150°)	50°	(10°)		Custom color, pigmented adhesive
	V-302LP	2	2	3	L	1	4	5	5	-20°	(-29°)	302°	(150°)	50°	(10°)		Low adhesion, cleanly removable
	V-302ULP	1	1	1	L	1	2	2	2	-20°	(-29°)	302°	(150°)	50°	(10°)		Ultra low adhesion, premask
	V-305	2	2	4-5	Н	6	5	5	5	-40°	(-40°)	302°	(150°)	50°	(10°)		Membrane switch, high temperature,
											()		` '		()		high performance
	L-305 [†]	2	2	4-5	Н	6	5	5	5	-40°	(-40°)	302°	(150°)	50°	(10°)		Membrane switch, high temperature.
				-							(-)		()		(-)		high performance
	V-314	1	1	1	L	1	3	2	1	-20°	(-29°)	302°	(150°)	50°	(10°)		Ultra removable, acid free
	V-327	1-2	1	1	M	1	3	2	1	-40°	(-40°)	302°	(150°)	50°	(10°)		Low adhesion, removable
	V-330	3	3	4	M	3	3	4	3	-40°	(-40°)	302°	(150°)	50°	(10°)		Reworkable for prime label:
				-							()		(,		(,		removable for shelf marking
	V-344•	5	3	5	M	5	4	5	5	-40°	(-40°)	302°	(150°)	50°	(10°)		General purpose
	I -344 [†]	5	3	5	M	5	4	5	5	-40°	(-40°)	302°	(150°)	50°	(10°)		General purpose
	V-344DI	4	3	5	M	5	4	5	5	-40°	(-40°)	302°	(150°)	32°	(0°)		Drum label low temperature
	VULLE	•	ľ	Ŭ		ľ	·	Ŭ	0	1.0	(10)	OOL	(100)		(0)		application
	V-378	6	5	6		5	4	5	5	-40°	(-40°)	302°	(150°)	32°	(0°)		Aggressive high performance
	honds	0		Ŭ		ľ		0	0	10	(10)	002	(100)	02	(0)		well to low surface energy surfaces
	1_378	6	5	6		5	1	5	5	_/10°	(_10°)	302°	(150%)	320	(0°)		Aggressive high performance:
	honds	0		0	L .		7	5	5	40	(40)	002	(150)	52	(0)		well to low surface energy surfaces
	V_/02•	2	2	1	н	6	5	5	5	_/10°	(_10°)	302°	(150%)	50°	(10%)		High temperature high performance
	1_402	2	2	-	н	6	5	5	5	_10°	(-40°)	302	(150°)	50°	(10)		High temperature, high performance
	L-402*	5	2	4	Ш		J	5	5	-40 _//0°	(-40) (-40°)	302	(150°)	50°	(10)		High temperature, high performance
	V-417	2	0	4	M	4	4	1	0	-40	(-40)	1760	(100)	500	(10)		Coporal purpose
	V-400	3 2	2	0.4		2	4	4	<u> </u>	-40	(-40)	170	(00)	50	(10)		Conorol purpose
	L-400'	<u>ა</u>	2	5-4		5	4	4	<u>ح</u>	-40	(-40)	2000	(00)	500	(10)		Aggregeive high performance
		3 2	2	5		5	5	0	5 F	-40 40°	(-40)	302	(150%)	500	(10)		Aggressive, high performance
	L-000'	<u>ა</u>	3	0		5	0 1	0	C 0	-40°	(-40°)	302°	(100')	50°	(10)	Not for use on vinul	Aggressive, high perioritatice
RUBBER	V-ÖÖ	0	0	0		5	1	5	4	-20°	(-29')	1700	(93)	50°	(10°)	Not for use on vinyl	High performance fire extinguisher
	L-00'	0	0	0		5	4	5	4	-20°	(-29")	1/0°	(80°)	500	(10)	INOLIOF USE ON VINYI	
	V-98	0	3	5	IVI	5	1	4	4	-20°	(-29°)	200°	(93°)	50°	(10°)		
	V-36/	6	5	6		5	1	2	4	-20°	(-29~)	200°	(93°)	50°	(10°)		very aggressive
SILICUNE	Densii®	1	3	4	H	5	b	b	5	-300	~(-185°)	302°	(150°)	50°	(10°)		High performance silicone

ADHESIVES COATED AT 1.0 MIL (25 MICRONS) THICKNESS – EXCEPTIONS INCLUDE V-253X COATED AT 1.7 MIL (43 MICRONS), AND V-367 COATED AT 1.5 MIL (38 MICRONS). ALL WERE TESTED ON 2.0 MIL (51 MICRONS) CLEAR POLYESTER FILM – EXCEPTIONS INCLUDE: L-88 WAS TESTED ON 3.5 MIL (89 MICRONS) WHITE DESTRUCT POLYETHYLENE FILM. SEE PAGE 5 FOR SPECIFIC TEST METHODS USED.

¹ Initial peel - 15 minute dwell time on stainless steel panel at room temperature ² Ultimate peel - 72 hour dwell time on stainless steel panel at room temperature

t"L" adhesives denote UL-Recognized adhesives. "L" adhesives listed on this chart may not be UL Recognized for listed temperature range and surface. "L" adhesives are included on this chart to compare performance values to our "V" adhesives only. Please reference our UL Guide for specific UL Recognition for these "L" adhesives. FLEXcon products are also listed under UL file numbers MH10170 and MH16635(N). A variety of FLEXcon products have CSA acceptance, and/or CUL acceptance. Please contact your Business Team for more information. • Adhesive can be ordered as a laminating adhesive.

UV Resistance

1 Poor

Adhesive turns very dark brown and/or complete loss of adhesion

2 Fair Adhesive turns brown, some adhesion loss/chalking and/or cracking of film

3 Good Adhesive turns yellowish, some adhesion loss but no effect on film

4 Very Good Slight discoloration, no adhesion loss 5 Excellent Very slight discoloration 6 Superior No change

1000 hours in QUV unit with 8 hour light, 4 hour humidity cycle and/or up to 1 year exposure in Florida.

Note: UV resistance of adhesive is also dependent on film. Service temperature limits are also dependent on film and application surface. Depending on film and surface it could be higher or lower.

Adhesive Performance for Polyester Film/Adhesive Combinations



ADHESIVES COATED AT 1.0 MIL (25 MICRONS) THICKNESS AND TESTED ON 2.0 MIL (51 MICRONS) CLEAR POLYESTER FILM. EXCEPTIONS INCLUDE: L-24S AND L-26 WERE TESTED ON 3.5 MIL (89 MICRONS) WHITE VINYL, A-81 AND V-81 WERE TESTED ON 2.0 MIL HARD CLEAR POLYPROPYLENE. SEE PAGE 5 FOR SPECIFIC TEST METHODS USED.

1 Denotes application surfaces tested

² (P) for polyester films

³ (V) for vinyl films

⁺"L" adhesives denote UL-Recognized adhesives. "L" adhesives listed on this chart may not be UL Recognized for listed temperature range and surface. "L" adhesives are included on this chart to compare performance values to our "V" adhesives only. Please reference our UL Guide for specific UL Recognition for these "L" adhesives. FLEXcon products are also listed under UL file numbers MH10170 and MH16635(N). A variety of FLEXcon products have CSA acceptance, and/or CUL acceptance. Please contact your Business Team for more information.

*Kapton and Tedlar are registered trademarks of E.I. DuPont Company.

• Adhesive can be ordered as a laminating adhesive.

180° Peel 1 Very Low 0 up to 14 oz/in (0-154 N/m) **2 Low** 15 up to 34 oz/in (165-374 N/m)

3 Medium 35 up to 54 oz/in (385-594 N/m) **4 Medium High** 55 up to 74 oz/in (605-814 N/m)

5 High 75 up to 94 oz/in (825-1034 N/m) 6 Very High More than 95 oz/in (1045 N/m)

Adhesive Performance for Polyester Film/Adhesive Combinations

Stainless Steel ¹ Tin Alkyd Enamel ABS Polycarbonate Vinyl	 Polypropylene¹ PVA
	 Polyethylene Polystyrene Acetal Tedlar*
TYPE CODE NO. SURFACE ENERGY GREATER THAN 50 DYNES/CM2 SURFACE ENERGY: 35 TO 45 DYNES/CM2	SURFACE ENERGY: 30 TO 35 DYNES/CM ²
ACRYLIC V-157 L-157 [†] Image: state s	
SILICONE Densil®	

ADHESIVES COATED AT 1.0 MIL (25 MICRONS) THICKNESS - EXCEPTIONS INCLUDE V-253X COATED AT 1.7 MIL (43 MICRONS), AND V-367 COATED AT 1.5 MIL (38 MICRONS); ALL ADHESIVES TESTED ON 2.0 MIL (51 MICRONS) CLEAR POLYESTER FILM. CERTAIN ADHESIVES MAY NOT BE RECOMMENDED FOR POLYESTER FILM. PLEASE CONTACT YOUR BUSINESS TEAM FOR MORE INFORMATION. SEE BELOW FOR SPECIFIC TEST METHODS USED.

¹ Denotes application surfaces tested ⁺"L" adhesives denote UL-Recognized adhesives. "L" adhesives listed on this chart may not be UL Recognized for listed temperature range and surface. "L" adhesives are included on this chart to compare performance values to our "V" adhesives, only. Please reference our UL Guide for specific UL Recognition for these "L" adhesives. FLEXcon products are also listed under UL file numbers MH10170 and MH16635(N). A variety of FLEXcon products have CSA acceptance and/or CUL acceptance. Please contact your Business Team for more information. *Kapton and Tedlar are registered trademarks of E.I. DuPont Company.

Adhesive can be ordered as a laminating adhesive.

180° Peel		
1 Very Low	3 Medium	5 High
0 up to 14 oz/in (0-154 N/m)	35 up to 54 oz/in (385-594 N/m)	75 up to 94 oz/in (825-1034 N/m)
2 Low	4 Medium High	6 Very High
15 up to 34 oz/in (165-374 N/m)	55 up to 74 oz/in (605-814 N/m)	More than 95 oz/in (1045 N/m)

TEST METHODS USED

TACK ASTM 2979 (Probe) The probe comes in contact with the surface of the adhesive. As the probe is pulled away, the force required to remove the adhesive is measured in gms/cm². PEEL

ASTM D 903 Peel adhesion test for single-sided pressure-sensitive coated films (tapes). A 1" x 5" strip of material is applied to the application surface (stainless steel, acrylic, polypropylene). After a dwell time of 15 minutes for initial peel and 72 hours for ultimate peel, a 180° angle peel is taken at 12"/minute. SHEAR ASTM D 3654 Method A

A measure of the internal or cohesive strength of the adhesive. A 1 sq. inch area of test sample is applied to stainless steel panel and after 1 hour dwell time at room temperature, 4 lbs. of static load is applied at 178° angle. Shear is measured in hours.

Adhesive Performance for Most Common Film/Adhesive Combinations

FILM/ADHESIVE BASIC ADHESION Combination Properties				SION Es	E	NVIRO Perfo	NMEI Rmai	NTAL NCE	RA	TE Nge oi	MPER <i>i</i> N stain	ATURE NLESS	STE	EL	RECOMMENDATIONS	KEY FEATURES	
		Tack	Dool		Shear		Resist	ance	to:		Low	Uiah	IIĥIU	Min.	App. Temp.		
FILM ADH	IESIVE		INIT ¹	ULT ²		CHEMIC	CAL UV	HEAT	HUMIDITY	°F	(°C)	°F	(°C)	°F	(°C)		
V 400 FW V-	-10	3	3	5	Μ	4	5	5	5	-40°	(-40°)	176°	(80°)	50°	(10°)	Not for ELV or PLV vinyl	General purpose for plasticized vinyl
V 400 FW L-	-10†	3	3	5	Μ	4	5	5	5	-40°	(-40°)	176°	(80°)	50°	(10°)	Not for ELV or PLV vinyl	Clear, good plasticizer resistance
PM 200 C V-	-12•	3	2	4	Μ	4	3-4	4	4	-40°	(-40°)	302° ((150°)	50°	(10°)		White opaque, general purpose
V 400 FW V-	-20	3	2-3	4	L-M	3	5	4	3	-40°	(-40°)	176°	(80°)	50°	(10°)		Low cost, permanent
OM 200 C V-	-22	4	3	4	M	5	5	5	6	-40°	(-40°)	257° ((125°)	32°	(0°)		Ultraclear for overlaminating
OM 200 C L-	-22 † ∆	4	3	4	Μ	5	5	5	6	-40°	(-40°)	257° ((125°)	32°	(0°)	Not for use on vinyl	Ultraclear for overlaminating
PM 200 C V-	-23 (P) ³	4	3	5	M	5	5	5	6	-40°	(-40°)	302° ((150°)	50°	(10°)	Not for use on vinyl	General purpose
PM 200 C L-	-23 †	4	3	5	Μ	5	5	5	6	-40°	(-40°)	302° ((150°)	50°	(10°)	Not for use on vinyl	for non-plasticized films
V 400 FW V-	-23(V) ⁴	3	3	5	L-M	4	5	5	5	-40°	(-40°)	176°	(80°)	50°	(10°)		General purpose for plasticized vinyl
V 400 FW L-	-24S [†]	3	3	5	Μ	4	5	5	5	-40°	(-40°)	176°	(80°)	50°	(10°)	For sheet form	General purpose for plasticized vinyl
V 400 FW V-	-29	2	3	5	M-H	5	5	5	5	-40°	(-40°)	176°	(80°)	50°	(10°)		Excellent plasticizer resistance; autoclavable
V 400 FW L-	-29 [†]	2	3	5	M-H	5	5	5	5	-40°	(-40°)	176°	(80°)	50°	(10°)		Excellent plasticizer resistance; autoclavable, overlaminating
PP 200 HC A-	-32	3	3	4	Н	5	1	4	5	-40°	(-40°)	176°	(80°)	50°	(10°)		General purpose, glass bottle;
PP 200 HC V-	-32	3	3	4	Н	5	1	4	5	-40°	(-40°)	176°	(80°)	50°	(10°)		General purpose, prime label
PP 200 HC A-	-32BW	2	2	4	H	5	1	4	5	-40°	(-40°)	176°	(80°)	50°	$\frac{(10^{\circ})}{(10^{\circ})}$		Good open/rework time:
	02	-	-	•		Ū	•	·	Ũ		()		(00)		()		general purpose, glass bottle
V 400 FW V-	-38	3	2	4	М	4	5	5	5	-20°	(-29°)	176°	(80°)	50°	(10°)	For sheet form	Semi-removable,
	1/1 t	1	2	1	N/	5	5	5	6	_10°	(_10°)	300° ((150%)	300	(0°)		Liltraclear overlaminating
DM 200 C	-44. 46 †	4	3	4	IVI	5	5	5	6	-40	(-40)	202 ((150)	500	(0)	Not for use on vinul	For pop plasticized films
FIVE 200 C L-	-40. A EQ	4	3 1	2		5	5	5	5	-40 20°	(-40)	1760	(000)	500	(10)	For use on vinvi	Pomovable, bus signage
$\sqrt{400}$ FW 0pq.	A-J0	2	1	3		5	5	5	5	-20	(-29) (-20°)	176°	(00) (80°)	50°	$\frac{(10)}{(10^{\circ})}$	For use on vinyl	General purpose removable
	- JU 62	2	2	5		5	5	5	5	100	(-29)	1760	(00)	500	(10)		LIV resistant: overlaminating
DIVI 200 C V	-03 66	2	3	0		5	5	5	<u> </u>	-40	(-40)	2020 ((00)	50°	(10) (10°)	Not for use on vinul	Medium to high took: general purpose
	-00-	4	4	2		5	5	5	5	-40	(-40)	1760	(000)	500	(10)	For upp on vinud	Removable shelf marking
	-00	4	1	<u>১</u>		0 1	2	0	2	-20	(-29)	1769	(00)	500	(10)	FOT USE OIT VILIYI	Removable, bus wron
PLV 400 FVV A-	-09 01	1	1	1 2		1	<u> </u>	2	<u> </u>	-20	(-29)	1769	(00)	500	(10)		Canaral purpage, pagage inc. chart
PP 200 FIG A-	-01	2	2	3	п	4	2	5	3	-40	(-40)	170	(00)	50	(10)		General purpose, passes ice chesi
	01	0	0	4	N.4.1.1	4	4	-		400	(400)	1700	(000)	500	(100)		and low-temp pasteurization
PP 200 HC V-	-81	2	2	4	IVI-H	4	4	5	3	-40*	(-40°)	1/6*	(80°)	50°	(10°)	Nut for a second second	General purpose, prime label
A 200 W V-	-94	2	3	4	IVI	4	5	5	5	-40°	(-40°)	212° ((100°)	50°	(10°)	Not for use on vinyi	Permanent for acrylic films
PIVI 150 C V-	-95	2	2	4	H	6	5	6	5	-40°	(-40°)	302° ((150°)	50°	(10°)	Not for use on vinyi	Clear, nigh temp.; autoclavable
V 400 FW A-	-109	1-2	1	1	L-M	1	3	2	2	-40°	(-40°)	1/6°	(80°)	50°	(10°)		Cleanly removable for floor graphics
UM 100 C V-	-122	4	3	4	L	4	3-4	5	4	-40°	(-40°)	302° (150°)	50°	(10°)	Not for use on vinyl	Ultraclear for overlaminating
OM 200 C L-	-122 [†]	4	3	5	L	5	4	5	4	-40°	(-40°)	302° ((150°)	50°	(10°)	Not for use on vinyl	Ultraclear for overlaminating
PM 200 C V-	-126*	3	3	5	Н	6	4	6	5	-40°	(-40°)	302° ((150°)	50°	(10°)		High temperature
PE 380 FWM A-	-136	3	3-4	4	Н	5	1	4	5	-40°	(-40°)	176°	(80°)	50°	(10°)		Aggressive, high-performance for
										1				1		1	full-squeeze tube

ADHESIVES COATED AT 1.0 MIL (25 MICRONS) THICKNESS; EXCEPTIONS INCLUDE V-26 AND V-94 COATED AT 1.5 MIL (38 MICRONS). CLEAR POLYESTER FILM, EXCEPTIONS INCLUDE: L-24S AND L-26 WERE TESTED ON 3.5 MIL (89 MICRONS) WHITE VINYL, A-81 AND V-81 WÉRE TESTED ON 2.0 MIL HARD CLEAR POLYPROPYLENE. SEE PAGE 5 FOR SPECIFIC TEST METHODS USED.

Initial peel - 15 minute dwell time on stainless steel panel at room temperature 2

³ (P) for polyester films ⁴ (V) for vinyl films

 (1) of points of main of the analysis of the anal t MH10170 and MH16635(N). A variety of FLEXcon products have CSA acceptance, and/or CUL acceptance. Please contact your Business Team for more information.

OM 200 C L-22 and K 200 Y Densil[®] are not UL Recognized film/adhesive combinations.
 Adhesive can be ordered as a laminating adhesive

Tack	Peel	Shear	Chemical, Heat and Humidity Ratings					
1 Very Low 0 up to 100 g/sq.cm. 2 Low 101 up to 400 g/sq.cm. 3 Medium 401 up to 550 g/sq.cm. 4 Medium High 551 up to 700 g/sq.cm. 5 High 701 up to 800 g/sq.cm. 6 Very High More than 801 g/sq.cm.	1 Very Low 0 up to 14 oz/in (0-154 N/m) 2 Low 15 up to 34 oz/in (165-374 N/m) 3 Medium 35 up to 54 oz/in (385-594 N/m) 4 Medium High 55 up to 74 oz/in (605-814 N/m) 5 High 75 up to 94 oz/in (825-1034 N/m) 6 Very High More than 95 oz/in (1045 N/m)	L = Low <10 hrs M = Medium >10 <100 hrs H = High >100 hrs	1 Poor More than 50% adhesion loss 2 Fair 20 to 50% adhesion loss 3 Good 10 to 20% adhesion loss 4 Very Good 5 to 10% adhesion loss 5 Excellent -5 to +5% adhesion change 6 Superior +5% adhesion gain	Chemical Resistance: Overall average of Peel Performance retained after exposure to chemicals vs. 72 hrs. on Stainless Steel panel at room temperature. Cleaning Solutions: Isopropyl Alcohol • Gasoline • Toluene • Oil (SAE 100×30) • Acetic Acid (5%) • Water Humidity Resistance: Overall average of Peel Performance retained after exposure to 100°F and 95% RH for 1 Day and 1 Week vs. 72 hrs. on Stainless Steel panel at room temperature.				

Adhesive Performance for Most Common Film/Adhesive Combinations

FILM/AI Combi	BA	SIC Pro	ADHI Pert	ESION Tes	ENVIRONMENTAL Performance			TEMPERATURE Range on stainless steel					RECOMMENDATIONS	KEY FEATURES		
		Tack		Peel	Shear	R	lesist	ance	to:		LOW	High	,	Min. App. Temn		
TYPE	CODE NO.		INIT ¹	ULT ²		CHEMICA	AL UV	HEAT	HUMIDITY	°F	(°C)	°F	(°C)	°F (°C		
V 400 FW	V-156	5	3	5	L	5	5	5	5	-40°	(-40°)	176° (80°)	32° (0°)	Low temperature, high adhesion
V 400 FW	L-156 [†]	5	3	5	L	5	5	5	5	-40°	(-40°)	176° (80°)	32° (0°)	Very aggressive, low temperature
OM 200 C	V-157	4	4	5	L	4	4	5	4	-40°	(-40°)	302° (1	150°)	50° (10	°)	Ultraclear for overlaminating
OM 200 C	L-157 [†]	4	4	5	L	4	4	5	4	-40°	(-40°)	302° (1	150°)	50° (10	°)	Ultraclear for overlaminating
V 400 FW	V-176	5	5	6	L	5	5	5	5	-20°	(-29°)	176° (80°)	32° (0°)	Very aggressive, acid free
V 400 FW	V-224	4	4	5	L-M	3-4	3-4	5	3	-40°	(-40°)	176° (80°)	50° (10	°)	General purpose
V 400 FW	L-224 [†]	4	4	5	L-M	3-4	3-4	5	3	-40°	(-40°)	176° (80°)	50° (10	°)	General purpose
PM 150 C	V-232	3	3	4	Н	5	5	4	5	-40°	(-40°)	302° (1	150°)	50° (10	°)	Pharmaceutical; autoclavable
V 240 RC	V-253X	3	3	5	М	3	2	5	3	-40°	(-40°)	176° (80°)	50° (10	°)	Custom color, pigmented adhesive
V 400 FW	V-302LP	2	2	3	L	1	4	5	5	-20°	(-29°)	176° (80°)	50° (10	°)	Low adhesion, cleanly removable
V 400 FW	V-302ULP	1	1	1	L	1	2	2	2	-20°	(-29°)	176° (80°)	50° (10	°)	Ultra low adhesion, premask
PM 200 C	V-305	2	2	4-5	Н	6	5	5	5	-40°	(-40°)	302° (1	150°)	50° (10	°)	Membrane switch, high temperature, high performance
PM 200 C	L-305 [†]	2	2	4-5	Н	6	5	5	5	-40°	(-40°)	302° (1	150°)	50° (10	°)	Membrane switch, high temperature, high performance
V 400 FW	V-314	1	1	1	L	1	3	1	1	-20°	(-29°)	176° (80°)	50° (10	°)	Ultra removable, acid free
V 400 FW	V-327	1-2	1	1	L-M	1	3	2	2	-40°	(-40°)	176° (80°)	50° (10	°)	Low adhesion, removable
V 400 FW	V-330	3	3	5	L	3	5	4	3	-40°	(-40°)	176° (80°)	50° (10	°)	Reworkable for prime label:
		Ē	-		_						())		/	removable for shelf marking
V 400 FW	V-344•	5	3	5	L-M	5	5	5	5	-40°	(-40°)	176° (80°)	50° (10	°)	General purpose: bonds well to low
											(-)	- (,		/	surface energy surfaces
V 400 FW	L-344 ^{†•}	5	3	5	L-M	5	5	5	5	-40°	(-40°)	176° (80°)	50° (10	°)	General purpose: bonds well to low
		ľ	-								())		/	surface energy surfaces
PE 350 FW	/M V-344DL	4	3	4	L-M	5	3	5	5	-40°	(-40°)	176° (80°)	32° (0°)	Drum label, low temperature application
V 400 FW	V-378	6	4	6	L	4	5	5	5	-40°	(-40°)	176° (80°)	32° (0°)	Aggressive, high performance; bonds
											(-)	- (,		/	well to low surface energy surfaces
V 400 FW	L-378 [†]	6	4	6	L	4	5	5	5	-40°	(-40°)	176° (80°)	32° (0°)	Aggressive, high performance; bonds
											(-)	- (,		/	well to low surface energy surfaces
PM 200 C	V-402•	2	3	4	Н	6	5	5	5	-40°	(-40°)	302° (1	150°)	50° (10	°)	High temperature, high performance
PM 200 C	L-402 [†]	2	3	4	Н	6	5	5	5	-40°	(-40°)	302° (1	150°)	50° (10	°)	High temperature, high performance
PM 200 C	V-417•	5	3	4	Н	4	4	5	5	-40°	(-40°)	302° (1	150°)	50° (10	°)	High temperature, high performance
V 400 FW	L-465 [†]	2-3	3	4	M	3	4	4	3	-40°	(-40°)	176° (80°)	50° (10	°)	General purpose
V 400 FW	V-465	2-3	3	4	M	3	4	4	3	-40°	(-40°)	176° (80°)	50° (10	°)	General purpose
PM 200 C	V-606*	3	3-4	1 5-6	H	5	5	6	5	-40°	(-40°)	302° (1	150°)	50° (10	°)	Aggressive, high performance
PM 200 C	1-606 ^{†•}	3	3-4	1 5-6	H	5	5	6	5	-40°	(-40°)	302° (1	150°)	50° (10	°)	Aggressive, high performance
DA 200 C	V-88	6	6	6	Н	1	1	5	1	-20°	(-29°)	200° (93°)	50° (10	 Not for use on vinvl 	High performance
PF 200 W	1-88	6	6	6	н	5	1	5	4	-20°	(-29°)	176° (80°)	50° (10	 Not for use on vinyl 	High performance fire extinguisher
Destruct		ľ		Ŭ		Ĭ	•	Ũ		_	(-0)		,			
V 400 FW	V-98	5	3	5	М	5	1	4	4	-20°	(-29°)	176° (80°)	50° (10	0)	General purpose
PE 380 FW	/M V-367	6	4	5	L	5	1	4	4	-20°	(-29°)	176° (80°)	50° (10	°)	Verv aggressive
K 200 Y De	ensil® † ∆	1	3	4	H	5	6	6	5	-300°	(-185°)	500° (2	260°)	50° (10	°)	Superior overall performance

ADHESIVES COATED AT 1.0 MIL (25 MICRONS) THICKNESS; EXCEPTIONS INCLUDE V-253X COATED AT 4.0 MIL (102 MICRONS), V-367 COATED AT 1.5 MIL (38 MICRONS), V-606 AND L-606 COATED AT 2.0 MIL (51 MICRONS).

- ¹ Initial peel 15 minute dwell time on stainless steel panel at room temperature
 ² Ultimate peel 72 hour dwell time on stainless steel panel at room temperature
 ⁴ "L" adhesives denote UL Recognized adhesives. "L" adhesives listed on this chart may not be UL Recognized for listed temperature range and surface. "L" adhesives are included on this chart to compare
- performance values to our "V" adhesives only. Please reference our UL duide for specific UL Recognition for these "L" adhesives. FLEXcon products are also listed under UL file numbers MH10170 and MH16635(N). A variety of FLEXcon products have CSA acceptance, and/or CUL acceptance. Please contact your Business Team for more information.
- ^A OM 100 C L-22 and K 200 Y Densil[®] are not UL-Recognized film/adhesive combinations.
- Adhesive can be ordered as a laminating adhesive.

UV Resistance

1 Poor

Adhesive turns very dark brown and/or complete loss of adhesion

2 Fair

Adhesive turns brown, some adhesion loss/chalking and/or cracking of film

3 Good Adhesive turns yellowish, some adhesion loss but no effect on film

4 Very Good Slight discoloration, no adhesion loss **5 Excellent** Very slight discoloration **6 Superior** No change 1000 hours in QUV unit with 8 hour light, 4 hour humidity cycle and/or up to 1 year exposure in Florida.

Note: UV resistance of adhesive is also dependent on film. Service temperature limits are also dependent on film and application surface. Depending on film and surface it could be higher or lower.





Let's Talk Solutions

Bring your challenges or next big idea to FLEXcon and we will work together to find a solution. Call us at (508) 885-8200 or visit our Customers' Corner website at www.FLEXcon.com.

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