

# ChromaLast™ 65

## 3D-printable polyurethane for high temperature applications

ChromaLast™ 65 is a strong, flexible polyurethane material with a high degree of crosslinking. It was designed for high-temperature applications requiring high tensile strength and low compression set.

### FEATURES

- Low compression set
- Smooth parts without post processing
- Isotropic tensile properties (Z properties are 86-100% of XY properties)
- High tensile strength
- No warping during prints
- Solidly filled parts
- Seals tightly against gases and liquids

PROPERTY	MEAN	STD. DEVIATION	UNIT	STANDARD
Tensile Strength (XY)	20.4 (2958)	2.6 (383)	MPa (psi)	ASTM 638
Tensile Strength (Z)	17.6 (2552)	4.6 (669)	MPa (psi)	ASTM 638
Elongation at Break (XY)	835	110	%	ASTM 638
Elongation at Break (Z)	839	93	%	ASTM 638
Modulus at 100% Strain (XY)	1.6 (232)	0.1 (13)	MPa (psi)	ASTM 638
Modulus at 100% Strain (Z)	1.4 (204)	0.1 (14)	MPa (psi)	ASTM 638
Hardness	63	+/-5	Shore A	ASTM D2240

### COMPRESSION SET PROPERTIES

15% (70° C for 22 Hours, 34% Deflection)	35% (100° C for 22 Hours, 33% Deflection)
------------------------------------------------	-------------------------------------------------

### CHEMICAL PROPERTIES

Flame Retardancy	Slow Burning
Resistance to Compressor Oil	Very Good
Resistance to Mineral Oil	Very Good
Adhesion to Metals & Fabrics	Very Good

### CHROMALAST™ RESINS

ChromaLast™ resins are flexible, colored, translucent or opaque polyurethane resins. They have a very low compression set, making them suitable for applications with long-term static or dynamic load. They have been specifically developed for applications with our RX-AM™ platform. This unique system is being evaluated for applications ranging from rail and automotive to oil and gas to seals and gaskets. ChromaLast is available with a wide range of hardness.

To learn more about ChromaLast™, please contact us at [info@c3dm.com](mailto:info@c3dm.com).