

ChromaMotive 70

Technical Data Sheet

Product Description

ChromaMotive resins are flexible, colored, translucent or opaque polyurethane resins. They have been specifically developed for 3D-printing applications that require specific flow and viscosity parameters in order to work with the RX-AM™ platform. This unique system has been evaluated for applications ranging from automotives to textiles. ChromaMotive is available with a wide range of properties.

ChromaMotive 70 is a strong, flexible polyurethane material with a high degree of crosslinking. It was designed for medium-temperature applications requiring high tensile strength, such as rail applications. It has slow burning properties.

Features

- Smooth parts without post processing
- Isotropic tensile properties
- High tensile strength
- No warping during printing
- Seals tightly against gases and liquids
- Solidly filled parts

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Physical & Mechanical Properties

	Fresh	Aged	
	100° C for	100° C for 72 Hours	
	18 Hours		
Cured Density	1.21 g/mL	1.16 g/mL	
Temperature Range	-40 to 125° C		
Maximum Temperature (Short-Term)	150 / 10° C/min		
Shore A Hardness	71	74	ISO 868
Tensile Modulus (100% Strain)	3.8 MPA	4.3 MPa	ISO 37
Peak Stress (Up To)	17.4 MPa	23.5 MPa	ISO 37
Elongation at Break (Up To)	490%	510%	ISO 37
Tensile Set	21.6%	14.9%	ASTM 412
Tear Strength	17.2 kN/m		ISO 34

Chemical Properties

Flame Retardancy	Slow Burning
Resistance to Compressor Oil	Very Good
Water Absorption	Low
Adhesion to Metals & Fabrics	Very Good

