Chromatic

ChromaFlow 90

Technical Data Sheet

Product Description

ChromaFlow 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. ChromaFlow is available with a wide range of properties.

ChromaFlow 90 is a strong, rigid polyurethane with residual flexibility. It was designed for oil-resistant applications of all types at low to medium temperatures. It is well suited for seals and gaskets as well as vibration damping applications, such as engine mounts, and for buffers and impact reduction.

Features

- Smooth parts without post processing
- Isotropic tensile properties
- Color matching easily possible
- Large parts without warping
- Exceptionally strong
- Fast elastic rebound

Physical & Mechanical Properties

Cured Density	1.12 g/mL	
Temperature Range	-40 to 110˚ C	
Maximum Temperature (Short-Term)	125 / 10˚ C/min	
Shore A Hardness	93	ISO 868
Tensile Modulus (100% Strain)	9.67 MPa	ISO 37
Peak Stress (Up To)	18.4 MPa	ISO 37
Elongation at Break (Up To)	272%	ISO 37

Chemical Properties

Flame Retardancy	Slow Burning
Resistance to Oil	Very Good
Water Absorption	Low
Adhesion to Metals	Very Good
Adhesion to Fabrics	Very Good
Adhesion to Plastics	Good to Fair

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