

Hexcel® HexMC™ C / 2000 / R1 Composite SMC

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Composite SMC , Epoxy , Epoxy/Carbon Fiber Composite

Material Notes:

High performance sheet-molding compound, specifically designed for compression molding. The epoxy matrix and high carbon fiber volume enable components to be molded for a wide range of applications. Overall Features: Competitive alternative to lightweight alloys (Ti, Al, Mg) Designed for compression molding Rapid processing cycles Complex shapes Molded-in inserts No material waste Internal release agent for multiple demolding Provided as a 460 mm wide roll; 8 month shelf life at -18° C; 7 day shelf life at RT; Areal weight 2000 g/m²; 57% HS carbon fiber by volume; 2.5 min cure time per mm part thickness. Information provided by Hexcel Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexMC-C-2000-R1-Composite-SMC.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	300 MPa	43500 psi	ASTM D638
Tensile Modulus	45.0 GPa	6530 ksi	ASTM D638
Flexural Yield Strength	450 MPa	65300 psi	ASTM D790
Flexural Modulus	40.0 GPa	5800 ksi	ASTM D790
Compressive Yield Strength	400 MPa	58000 psi	ASTM D495
Compressive Modulus	35.0 GPa	5080 ksi	ASTM D695
Shear Strength	45.0 MPa	6530 psi	I.L.S.S. short beam shear per ASTM D5379

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	88.0 °C	190 °F	by DMTA following AITM 1-0003. Higher Tg possible by adjustment of cure time.

Processing Properties	Metric	English	Comments
Processing Temperature	135 °C	275 °F	Cure Temp

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