

Quantum Composites QC-8850 43% Glass Fiber Reinforced Polyester Hybrid SMC

Category : Polymer , Thermoset , Composite SMC , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

QC-8850 is a polyester hybrid engineered structural composite molding compound designed for compression molding of components requiring high structural strength. It exhibits unusual toughness, and excellent stiffness, and is suggested for applications subject to impacts and rough handling. Form = Rolled Sheet Color = Safety Colors, Black Glass Fiber Content = 43% nominal Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-QC-8850-43-Glass-Fiber-Reinforced-Polyester-Hybrid-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	ASTM D792
Linear Mold Shrinkage	0.00 cm/cm	0.00 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	234 MPa	33900 psi	ASTM D638
Flexural Strength	406 MPa	58900 psi	ASTM D790
Flexural Modulus	13.7 GPa	1990 ksi	ASTM D790
Izod Impact, Notched	16.02 J/cm	30.01 ft-lb/in	ASTM D256

Processing Properties	Metric	English	Comments
Processing Temperature	132 - 149 °C @Thickness 12.7 mm	270 - 300 °F @Thickness 0.500 in	Compression Molding
Clamp Pressure	2.07 - 6.89 MPa	300 - 1000 psi	
Cure Time	3.00 - 5.00 min @Thickness 6.35 mm, Temperature 138 °C	0.0500 - 0.0833 hour @Thickness 0.250 in, Temperature 280 °F	
Shelf Life	2.00 Month @Temperature 23.9 °C	2.00 Month @Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Fiber Length (in)	1	Glass, nominal

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