

Quantum Composites QC-8777 41% Glass Fiber Reinforced Polyester Hybrid SMC

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

Material Notes:

QC-8777 is a polyester hybrid engineered structural composite molding compound designed for compression molding of components requiring high structural strength, corrosion resistance and temperature resistance combined with low molded density. Form = Rolls, Festooned Sheet Color = Black, Natural Glass Fiber Content = 41% nominal Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-QC-8777-41-Glass-Fiber-Reinforced-Polyester-Hybrid-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	0.13 %	0.13 %	ASTM D570
	1.2 %	1.2 %	ASTM D570
	@Temperature 50.0 °C, Time 3.60e+6 sec	@Temperature 122 °F, Time 1000 hour	
Linear Mold Shrinkage	-0.00100 cm/cm	-0.00100 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	105 MPa	15200 psi	ASTM D638
Flexural Strength	235 MPa	34100 psi	ASTM D790
Flexural Modulus	11.4 GPa	1650 ksi	ASTM D790
Izod Impact, Notched	9.60 J/cm	18.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	>= 250 °C	>= 482 °F	Deflection Temperature, Load not specified; ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	132 - 160 °C	270 - 320 °F	Compression Molding
	@Thickness 12.7 mm	@Thickness 0.500 in	
Clamp Pressure	2.07 - 6.89 MPa	300 - 1000 psi	
Cure Time	3.00 - 5.00 min	0.0500 - 0.0833 hour	
	@Thickness 6.35 mm, Temperature 149 °C	@Thickness 0.250 in, Temperature 300 °F	

Processing Properties	Metric	English	Comments
Shelf Life	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Fiber Length (in)	1	Glass, nominal
Flammability	Self Extinguishing	FMVSS 302-75

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