

Quantum Composites QC-7753 50% Glass Fiber Reinforced Polyester SMC

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

Material Notes:

QC-7753 is a polyester engineered structural composite molding compound that is designed for applications requiring high strength, fire retardant properties, and resistance to elevated temperatures. It offers fast molding cycles and good surface appearance. Form = Rolls, Festooned Sheet Color = Black, Gray Glass Fiber Content = 63% nominal Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-QC-7753-50-Glass-Fiber-Reinforced-Polyester-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
Linear Mold Shrinkage	0.00050 cm/cm	0.00050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	58	58	ASTM D2583
Tensile Strength	220 MPa	31900 psi	ASTM D638
Flexural Strength	400 MPa	58000 psi	ASTM D790
Flexural Modulus	15.8 GPa	2290 ksi	ASTM D790
Compressive Strength	172 MPa	24900 psi	ASTM D695
Shear Modulus	4.50 GPa	653 ksi	ASTM D4065
Izod Impact, Notched	16.0 J/cm	30.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	>= 260 °C	>= 500 °F	Deflection Temperature, Load not specified; ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	132 - 157 °C	270 - 315 °F	Compression Molding
Clamp Pressure	2.76 - 8.27 MPa	400 - 1200 psi	
Cure Time	1.25 min	0.0208 hour	
	@Thickness 1.52 mm, Temperature 143 °C	@Thickness 0.0600 in, Temperature 290 °F	
	1.00 Month	1.00 Month	

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

Descriptive Properties	Value	Comments
Fiber Length (in)	1	Glass, nominal
Flammability	Self Extinguishing	ISO 3795

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