

Quantum Composites QC-7810 55% Glass Fiber Polyester SMC (discontinued **)

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

QC-7810 is a toughened thermoset polyester-based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength and flame resistance. It is suggested for applications subject to impacts and rough handling. QC-7810 has Underwriter's Laboratory recognition for 130°C use. Form and Color = Rolled Sheet, Black. Glass Fiber Length = .5 inch Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-QC-7810-55-Glass-Fiber-Polyester-SMC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	68	68	ASTM D2583
Tensile Strength, Ultimate	324 MPa	47000 psi	ASTM D638
Flexural Yield Strength	482 MPa	69900 psi	ASTM D790
Flexural Modulus	17.2 GPa	2490 ksi	ASTM D790
Izod Impact, Notched	17.0 J/cm	31.8 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 °C	266 °F	UL Recognized
	>= 260 °C	>= 500 °F	Deflection Temp; Load not reported; ASTM D648
Flammability, UL94	V-1 @Thickness 2.90 mm	V-1 @Thickness 0.114 in	
Shrinkage	0.0010 %	0.0010 %	

Processing Properties	Metric	English	Comments
Processing Temperature	132 - 149 °C	270 - 300 °F	Mold temperature

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