

Budd Hi-Flex® SMC (discontinued **)

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

Material Notes:

Parts requiring high strength and dimensional stability, excellent surface smoothness without sink marks; parts to be painted requiring an automotive-type finish. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Budd-Hi-Flex-SMC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	
Water Absorption	<= 0.45 %	<= 0.45 %	ASTM D570-63
Linear Mold Shrinkage	0.00060 cm/cm	0.00060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	73.0 MPa	10600 psi	ASTM D638-68
Flexural Yield Strength	126 MPa	18300 psi	ASTM D790-70
Flexural Modulus	6.25 GPa	906 ksi	
Izod Impact, Notched	11.0 J/cm	20.6 ft-lb/in	ASTM D256-70

Thermal Properties	Metric	English	Comments
CTE, linear	10.1 µm/m-°C	5.61 µin/in-°F	
	@Temperature 23.0 - 150 °C	@Temperature 73.4 - 302 °F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 235 °C	>= 455 °F	ASTM D648-61

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