

Budd DSM-949, Diesel Grade SMC, Vinyl Ester, Black (discontinued **)

Category : Polymer , Thermoset , Composite SMC , Vinyl Ester , Vinyl Ester Sheet Molding Compound

Material Notes:

Used for parts requiring high strength at room temperature, good retention of properties at high temperatures and corrosion resistance, such as diesel engine external body parts. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Budd-DSM-949-Diesel-Grade-SMC-Vinyl-Ester-Black-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	
Water Absorption	<= 0.35 %	<= 0.35 %	ASTM D570-63
Linear Mold Shrinkage	0.00050 cm/cm	0.00050 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	55 - 65	55 - 65	ASTM D2583
Tensile Strength, Ultimate	75.0 - 105 MPa	10900 - 15200 psi	ASTM D638-68
Flexural Yield Strength	190 MPa	27600 psi	ASTM D790-70
Flexural Modulus	9.70 - 12.4 GPa	1410 - 1800 ksi	ASTM D790-70
Izod Impact, Notched	8.50 J/cm	15.9 ft-lb/in	ASTM D256-70

Thermal Properties	Metric	English	Comments
CTE, linear	17.5 µm/m-°C	9.72 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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