

SumiDurez 156

Phenolic

SumiDurez Singapore Pte Ltd

Message:

156 Phenolic is a two-stage, asbestos-free, heat resistant / electrical molding material. It exhibits excellent dimensional stability, high heat resistance, good molded appearance, and UL flammability rating. Typical applications include automotive carburetor spacers, sealing rings, thrust washers, speedometer sleeves, appliance terminals, probe controls, insulators, light baffles, etc.

ASTM Type 13

General Information			
UL YellowCard	E110527-218945		
Features	Flame Retardant		
	Good Dimensional Stability		
	Good Electrical Properties		
	High Heat Resistance		
	Pleasing Surface Appearance		
Uses	Appliances		
	Automotive Applications		
	Bobbins		
	Electrical Parts		
	Seals		
	Washer		
Appearance	Black		
	Brown		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792
Apparent Density	0.59	g/cm ³	ASTM D1895
Bulk Factor	2.7		ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.40 to 0.80	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	10300	MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	48.3	MPa	ASTM D638
Flexural Strength (Compression Molded)	72.4	MPa	ASTM D790
Compressive Strength	193	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	191	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Dielectric Strength	12	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	180	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.02 mm	V-1		
1.47 mm	V-0		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

