SumiDurez 152

Phenolic

SumiDurez Singapore Pte Ltd

Message:

Mechanical

Tensile Modulus (Compression Molded)

152 Phenolic is a two-stage, asbestos-free heat resistant / electrical molding material. It exhibits superior dimensional stability, good strength retention at elevated temperature, and good molded appearance and machinability which account for its widespread use on electrical, telecommunication, and appliance applications. The electrical properties for injection-molded applications are greatly improved relative to asbestos-bearing materials. 152 Phenolic is designed to meat the requirements of Mil-M-14G, Type CFG. ASTM Type 13

General Information				
UL YellowCard	E110527-100676189			
Features	Good Dimensional Stability			
	Good Electrical Properties			
	Good Strength			
	High Heat Resistance			
	High Temperature Strength			
	Machinable			
	Pleasing Surface Appearance			
Uses	Appliances			
	Electrical/Electronic Applications			
	Telecommunications			
Agency Ratings	MIL M-14G, Type CFG			
Appearance	Black			
	Brown			
Forms	Granules			
Processing Method	Compression Molding			
	Injection Molding			
	Resin Transfer Molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.50	g/cm ³	ASTM D792	
Apparent Density	0.65	g/cm³	ASTM D1895	
Bulk Factor	2.3		ASTM D1895	
Molding Shrinkage - Flow (Compression Molded)	0.60 to 1.0	%	ASTM D955	
Water Absorption (24 hr)	0.30	%	ASTM D570	

Unit

MPa

Test Method

ASTM D638

Nominal Value

9650

Tensile Strength (Yield, Compression			
Molded)	55.2	MPa	ASTM D638
Flexural Strength (Compression Molded)	75.8	MPa	ASTM D790
Compressive Strength	207	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	15	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	190	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.47 mm	V-1		
3.05 mm	V-0		

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