

# SumiDurez 150

Phenolic

SumiDurez Singapore Pte Ltd

## Message:

150 Phenolic is a two-stage, asbestos-free, cost effective, heat resistant / electrical molding material. It exhibits superior dimensional stability, good strength retention at elevated temperature, and good molded appearance and machinability that account for its widespread use on electrical, and appliance applications.  
ASTM Type 13

General Information			
UL YellowCard	E110527-100727276		
Features	Good Dimensional Stability		
	Good Electrical Properties		
	Good Moldability		
	Good Strength		
	High Heat Resistance		
	High Temperature Strength		
	Machinable		
	Pleasing Surface Appearance		
Uses	Appliances		
	Electrical Parts		
	Electrical/Electronic Applications		
Appearance	Black		
	Brown		
Forms	Granules		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.65	g/cm <sup>3</sup>	ASTM D1895
Bulk Factor	2.3		ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.50 to 1.0	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	8960	MPa	ASTM D638

Tensile Strength (Yield, Compression Molded)	48.3	MPa	ASTM D638
Flexural Strength (Compression Molded)	68.9	MPa	ASTM D790
Compressive Strength	193	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	15	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	13	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	190	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.05 mm)	V-0		UL 94

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#### Recommended distributors for this material

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