

# SumiDurez 153

Phenolic

SumiDurez Singapore Pte Ltd

## Message:

153 Phenolic is a two-stage, asbestos-free heat resistant / electrical molding material. It exhibits good molded appearance and shock resistance for use on a wide variety of electrical and appliance applications. 153 Phenolic is designed to meet the requirements of Mil-M-14G, Type CFG. ASTM Type 13

General Information	
UL YellowCard	E110527-218944
Features	Barrier Resin
	Good Electrical Properties
	Good Impact Resistance
	High Heat Resistance
	Pleasing Surface Appearance
	Shock Resistant
Uses	Appliances
	Electrical/Electronic Applications
	Kitchenware
Agency Ratings	MIL M-14G, Type CFG
Appearance	Black
Forms	Granules
Processing Method	Compression Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.60	g/cm <sup>3</sup>	ASTM D1895
Bulk Factor	2.6		ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.60 to 1.1	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	10300	MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	55.2	MPa	ASTM D638
Flexural Strength (Compression Molded)	82.7	MPa	ASTM D790
Compressive Strength	179	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (Compression Molded)	18	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	180	°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)	225	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.02 mm	V-1		
1.47 mm	V-0		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

