

SumiDurez 118

Phenolic

SumiDurez Singapore Pte Ltd

Message:

118 Phenolic is a two-stage, asbestos free, general purpose moulding material. It exhibits improved impact strength and resistance to flexural fatigue for demanding automotive, electrical and appliance applications. Shrinkage and mechanical strengths are closely controlled to meet part reliability requirements.

ASTM Type 2 & 3

General Information	
UL YellowCard	E110527-218941
Features	Fatigue Resistant
	General Purpose
	Good Impact Resistance
Uses	Appliances
	Automotive Applications
	Electrical Housing
	Electrical Parts
	Electrical/Electronic Applications
	General Purpose
	Switches
Appearance	Black
Forms	Granules
Processing Method	Compression Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Apparent Density	0.58	g/cm ³	ASTM D1895
Bulk Factor	2.4		ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.70 to 1.1	%	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	9650	MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	55.2	MPa	ASTM D638
Flexural Strength (Compression Molded)	82.7	MPa	ASTM D790
Compressive Strength	207	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)	171	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.15 mm	V-1		
6.10 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

