

SumiDurez 115

Phenolic

SumiDurez Singapore Pte Ltd

Message:

115 Phenolic is a two-stage, asbestos free, general purpose molding material. It exhibits improved impact strength and resistance to flexural fatigue, good surface appearance for electrical applications (circuit-breakers). Shrinkage and mechanical strengths are closely controlled to meet parts reliability requirements.
ASTM Type 2

General Information			
UL YellowCard	E110527-218940		
Features	Fatigue Resistant		
	General Purpose		
	Good Dimensional Stability		
	Pleasing Surface Appearance		
Uses	Electrical Parts		
	General Purpose		
Appearance	Black		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Apparent Density	0.56	g/cm ³	ASTM D1895
Bulk Factor	2.5		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)	9650	MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	55.2	MPa	ASTM D638
Flexural Strength (Compression Molded)	72.4	MPa	ASTM D790
Compressive Strength	221	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	13	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	V-0		UL 94

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Recommended distributors for this material

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