

SumiDurez 111

Phenolic

SumiDurez Singapore Pte Ltd

Message:

111 Phenolic is a two-stage, asbestos-free, general purpose moulding material. It exhibits versatile mouldability plus a balance of physical and electrical properties which make it suitable for many diverse applications.
ASTM Type 2

General Information	
UL YellowCard	E110527-100107520
Features	General Purpose
	Good Electrical Properties
	Good Moldability
Uses	Appliances
	Electrical Parts
	General Purpose
Appearance	Black
	Brown
Forms	Granules
Processing Method	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Apparent Density	0.62	g/cm ³	ASTM D1895
Bulk Factor	2.3		ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.80 to 1.1	%	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	8270	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)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	182	°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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.05 mm)	V-0		UL 94

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