

SumiDurez 110

Phenolic

SumiDurez Singapore Pte Ltd

Message:

110 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	E110527-218938		
Features	General Purpose		
	Good Electrical Properties		
	Good Moldability		
Uses	Electrical/Electronic Applications		
	General Purpose		
	Handles		
Appearance	Black		
	Brown		
Forms	Granules		
Processing Method	Compression Molding		
	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)	6890	MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	48.3	MPa	ASTM D638
Flexural Strength (Compression Molded)	68.9	MPa	ASTM D790
Compressive Strength	207	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)	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			UL 94
3.00 mm	V-1		
6.40 mm	V-0		

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