

Durez® 152 (Compression)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

Durez 152 Phenolic is a two-stage, heat resistant/ electrical molding material. It exhibits superior dimensional stability, good strength retention at elevated temperature and good molded appearance and machinability which account for it's widespread use on electrical, telecommunication and appliance applications.

General Information	
Features	Good dimensional stability High temperature strength Antibacterial property Machinable Heat resistance, medium Good appearance
Uses	Electrical/Electronic Applications Electrical appliances Communication Equipment
Agency Ratings	MIL E-5272C MIL I-631D
Appearance	Black
Forms	Particles
Processing Method	Resin transfer molding Compression molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Apparent Density	0.68	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.60	%	ASTM D6289
Water Absorption	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9600	MPa	ASTM D638
Tensile Strength	48.0	MPa	ASTM D638
Flexural Strength	76.0	MPa	ASTM D790
Compressive Strength	207	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	191	°C	ASTM D648
RTI Elec (3.00 mm)	160	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
-- ¹	15	kV/mm	ASTM D149
-- ²	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.00		ASTM D2520
Dissipation Factor (1 MHz)	0.050		ASTM D150
Comparative Tracking Index	190	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-1		UL 94
3.00 mm	V-0		UL 94
6.00 mm	V-0		UL 94
Thermoset	Nominal Value	Unit	
Shelf Life	52	wk	
Additional Information			
Test Specimens Molded at 340-350°F Typical transfer-molded shrinkage is 0.008 in/in Durez 152 is fungus resistant per Mil-I-631D and Mil-E-5272C.			
NOTE			
1.	Method A (short time)		
2.	Method B (step by step)		

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