

Durez® 32962 (Compression)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

Durez 32962 Black Phenolic is a medium impact, molding compound. It is designed for applications where additional mechanical strength is required. Typical applications include appliance housings where strength and appearance are important.

General Information	
Features	Good strength
	Medium impact resistance
Uses	Home appliance components
	Shell
Appearance	Black
Forms	Particles
Processing Method	Resin transfer molding
	Compression molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Apparent Density	0.58	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.60	%	ASTM D6289
Water Absorption	0.50	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6900	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	27	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	182	°C	ASTM D648
RTI Elec (3.00 mm)	150	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms · cm	ASTM D257
Dielectric Strength			ASTM D149
-- ¹	12	kV/mm	ASTM D149
-- ²	9.8	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	6.00		ASTM D2520

Dissipation Factor (1 MHz)	0.060		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		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 0.007 in/in			
NOTE			
1.	Method A (short time)		
2.	Method B (step by step)		

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