

Durez® 118 (Injection)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

Durez 118 Black Phenolic is a two-stage, general purpose molding material. It exhibits improved impact strength and resistance to flexural fatigue for demanding automotive, electrical and appliance applications. Shrinkage and mechanical strengths are closely controlled to meet part reliability requirements.

General Information	
Features	Impact resistance, good
	Fatigue resistance
	General
Uses	Electrical/Electronic Applications
	Electrical appliances
	Application in Automobile Field
Appearance	Black
Forms	Particles
Processing Method	Resin transfer molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Apparent Density	0.58	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	1.1	%	ASTM D6289
Water Absorption	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8300	MPa	ASTM D638
Tensile Strength	48.0	MPa	ASTM D638
Flexural Strength	69.0	MPa	ASTM D790
Compressive Strength	207	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	17	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	149	°C	ASTM D648
RTI Elec (3.00 mm)	150	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	ohms · cm	ASTM D257
Dielectric Strength			ASTM D149

-- 1	8.9	kV/mm	ASTM D149
-- 2	6.9	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.50		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	V-1		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 0.009 in/in			
NOTE			
1.	Method A (short time)		
2.	Method B (step by step)		

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