

Durez® 156 (Compression)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

Durez 156 Black Phenolic is a two-stage, heat resistant/electrical molding material. It exhibits excellent dimensional stability, high heat resistance, excellent molded appearance, and UL flammability rating. Typical applications include automotive carburetor spacers, sealing rings, thrust washers, speedometer sleeves, appliance terminals, probe controls, insulators, light baffles, etc.

General Information			
Features	Good dimensional stability		
	Antibacterial property		
	Heat resistance, high		
	Good appearance		
Uses	Electrical/Electronic Applications		
	Washer		
	Isolated insulator		
	Seals		
	Application in Automobile Field		
Agency Ratings	MIL E-5272C		
Appearance	Black		
Forms	Particles		
Processing Method	Resin transfer molding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792
Apparent Density	0.65	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.40	%	ASTM D6289
Water Absorption	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10300	MPa	ASTM D638
Tensile Strength	41.0	MPa	ASTM D638
Flexural Strength	72.0	MPa	ASTM D790
Compressive Strength	196	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	18	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	12	kV/mm	ASTM D149
-- ²	11	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.00		ASTM D2520
Dissipation Factor (1 MHz)	0.050		ASTM D150
Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index	180	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.510 mm	V-1		UL 94
	V-0		
1.50 mm	5VA		UL 94
Thermoset	Nominal Value	Unit	
Shelf Life	52	wk	
Additional Information			
Test Specimens Molded at 340-350°F Typical transfer-molded shrinkage is 0.006 in/in Durez 156 is fungus resistant per Mil-E-5272C.			
NOTE			
1.	Method A (short time)		
2.	Method B (step by step)		

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