# Durez® 153 (Compression)

### Phenolic

#### Sumitomo Bakelite North America, Inc.

#### Message:

Durez 153 Black Phenolic is a two-stage, heat resistant/electrical molding material. It exhibits good molded appearance and shock resistance for use on a wide variety of electrical and appliance applications.

General Information					
Features	Earthquake resistance				
	Heat resistance, medium				
	Good appearance				
Uses	Electrical/Electronic Applications				
	Electrical appliances				
Appearance	Black				
Forms	Particles				
Processing Method	Resin transfer molding				
	Compression molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.53	g/cm³	ASTM D792		
Apparent Density	0.60	g/cm³	ASTM D1895		
Molding Shrinkage - Flow	0.60	%	ASTM D6289		
Water Absorption	0.40	%	ASTM D570		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	10300	MPa	ASTM D638		
Tensile Strength	55.0	MPa	ASTM D638		
Flexural Strength	76.0	MPa	ASTM D790		
Compressive Strength	179	MPa	ASTM D695		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact	20	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)	155	°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		
<sup>2</sup>	12	kV/mm	ASTM D149		

Dielectric Constant (1 MHz)	5.00		ASTM D2520		
Dissipation Factor (1 MHz)	0.040		ASTM D150		
Comparative Tracking Index	225	V	IEC 60112		
Flammability	Nominal Value	Unit	Test Method		
Flame Rating			UL 94		
1.00 mm	V-1		UL 94		
1.50 mm	V-0		UL 94		
3.00 mm	V-0		UL 94		
Thermoset	Nominal Value	Unit			
Shelf Life	52	wk			
Additional Information					
Test Specimens Molded at 340-350°FTy	pical transfer-molded shrinkage i	s 0.009 in/in			
NOTE					
1.	Method A (short time)	Method A (short time)			
2.	Method B (step by step)				

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#### Recommended distributors for this material

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