

Durez® 25378 (Injection)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

Durez 25378 Black is a two stage heat resistant / electrical grade molding material having an excellent molded finish, low shrinkage and good heat resistance. Durez 25378 has exceptional U.L. flammability ratings and good comparative tracking index.

General Information			
Features	Heat resistance, high		
	Low shrinkage		
	Excellent appearance		
Appearance	Black		
Forms	Particles		
Processing Method	Resin transfer molding		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.61	g/cm ³	ASTM D792
Apparent Density	0.68	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.85	%	ASTM D6289
Water Absorption	0.20	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13100	MPa	ASTM D638
Tensile Strength	54.0	MPa	ASTM D638
Flexural Strength	90.0	MPa	ASTM D790
Compressive Strength	165	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	19	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	13	kV/mm	ASTM D149
-- 2	9.8	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.60		ASTM D2520
Dissipation Factor (1 MHz)	0.060		ASTM D150
Arc Resistance	180	sec	ASTM D495

Comparative Tracking Index	220	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.510 mm	V-0		UL 94
1.50 mm	V-0		UL 94
3.30 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 0.005 in/in			
NOTE			
1.	Method A (short time)		
2.	Method B (step by step)		

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