

Durez® 31906 (Injection)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

Durez 31906 Black Phenolic is a medium impact, molding compound. It is designed for applications where additional mechanical strength is required.

General Information			
Features	Good strength		
	Medium impact resistance		
Appearance	Black		
Forms	Particles		
Processing Method	Resin transfer molding		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Apparent Density	0.55	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	1.0	%	ASTM D6289
Water Absorption	0.40	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7600	MPa	ASTM D638
Tensile Strength	59.0	MPa	ASTM D638
Flexural Strength	90.0	MPa	ASTM D790
Compressive Strength	220	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	21	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)	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)	6.50		ASTM D2520
Dissipation Factor (1 MHz)	0.080		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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