Durez® 32245 (Compression)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

General Information

Durez 32245 Black Phenolic is a two-stage glass fiber and mineral filled special purpose molding compound. It is especially designed for applications requiring high strength and dimensional stability with excellent heat resistance. Typical applications include heavy duty switch gear, connectors, and commutators.

Filler / Reinforcement	Glass fiber reinforced material		
	Mineral filler		
Features	Good dimensional stability		
	High strength		
	Heat resistance, high		
Uses	Gear		
	Switch		
	Connector		
Appearance	Black		
Forms	Particles		
Processing Method	Resin transfer molding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm³	ASTM D792
Apparent Density	0.85	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.25	%	ASTM D6289
Water Absorption	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17200	MPa	ASTM D638
Tensile Strength	69.0	MPa	ASTM D638
Flexural Strength	103	MPa	ASTM D790
Compressive Strength	241	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	204	°C	ASTM D648
RTI Elec (3.00 mm)	180	°C	UL 746

Electrical	Nominal Value	Unit	Test Method	
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257	
Dielectric Strength			ASTM D149	
1	18	kV/mm	ASTM D149	
2	14	kV/mm	ASTM D149	
Dielectric Constant (1 MHz)	4.90		ASTM D2520	
Dissipation Factor (1 MHz)	0.020		ASTM D150	
Flammability	Nominal Value	Unit	Test Method	
Flame Rating			UL 94	
1.50 mm	V-0		UL 94	
3.00 mm	V-0		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°FPost Bake Properties - 8 hrs at 350°F				
NOTE				
1.	Method A (short time)			
2.	Method B (step by step)			

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