

## Sumitomo Bakelite DurezÂ® 32245 Phenolic, Compression Grade

Category : Polymer , Thermoset , Phenolic

### Material Notes:

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. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sumitomo-Bakelite-Durez-32245-Phenolic-Compression-Grade.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-32245-Phenolic-Compression-Grade.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.850 g/cc	0.0307 lb/in <sup>3</sup>	ASTM D1895
Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	ASTM D6289

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	69.0 MPa	10000 psi	ASTM D638
Tensile Modulus	17.2 GPa	2490 ksi	ASTM D638
Flexural Strength	103 MPa	14900 psi	ASTM D790
Compressive Strength	241 MPa	35000 psi	ASTM D695
Izod Impact, Notched	0.374 J/cm	0.701 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 Â°C	356 Â°F	UL Temperature Index; at 3.0 mm
Deflection Temperature at 1.8 MPa (264 psi)	204 Â°C	399 Â°F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	4.9	4.9	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	13.8 kV/mm	351 kV/in	step-by-step; ASTM D149
	17.7 kV/mm	450 kV/in	short time; ASTM D149
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Color	Black	
Molding Method	Compression	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China