

Sumitomo Bakelite Durez[®] 25378 Phenolic, Compression Grade

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Heat Resistant Grade, Filled

Material Notes:

Durez 25378 Black Phenolic 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 UL flammability ratings and good comparative tracking index. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-25378-Phenolic-Compression-Grade.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ASTM D792
Apparent Bulk Density	0.680 g/cc	0.0246 lb/in ³	ASTM D1895
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ASTM D638
Tensile Modulus	10.3 GPa	1490 ksi	ASTM D638
Flexural Strength	69.0 MPa	10000 psi	
Compressive Strength	158 MPa	22900 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 Â°C @Thickness 3.0 mm	320 Â°F @Thickness 0.12 in	UL Temperature Index
Deflection Temperature at 1.8 MPa (264 psi)	204 Â°C	399 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.510 mm	V-0 @Thickness 0.0201 in	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	5VA @Thickness 3.30 mm	5VA @Thickness 0.130 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	4.9	4.9	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	12.8 kV/mm	325 kV/in	Step by step; ASTM D149
	16.7 kV/mm	424 kV/in	Short Time; ASTM D149
Dissipation Factor	0.040	0.040	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	220 V	220 V	IEC Tracking Index

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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