

## Hexion Bakelite™ PF 2560 Phenolic Formaldehyde Resin, High Surface Quality, For Electrostatic Coating, UL Listed &n

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic

### Material Notes:

Phenolic molding compound, inorganically/organically filled, average heat resistant, high surface quality, lower water absorption than PF 31, minimal distortion, UL listed molding compound 1.5 mm/V-1 (ALL), 3.0 mm/V-0 (ALL). Application areas: Housings for domestic appliances, oven strips. Information provided by Bakelite AGBakelite AG became a part of Hexion in 2005.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexion-Bakelite-PF-2560-Phenolic-Formaldehyde-Resin-High-Surface-Quality-For-Electrostatic-Coating-UL-Listed-n.php](http://www.lookpolymers.com/polymer_Hexion-Bakelite-PF-2560-Phenolic-Formaldehyde-Resin-High-Surface-Quality-For-Electrostatic-Coating-UL-Listed-n.php)

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in <sup>3</sup>	ISO 1183
Apparent Bulk Density	0.740 g/cc	0.0267 lb/in <sup>3</sup>	ISO 60
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	Injection molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	350 MPa	50800 psi	H 961/30; ISO 2039/P1
Tensile Strength at Break	50.0 MPa	7250 psi	5 mm/min; ISO 527 - 1/2
Tensile Modulus	9.00 GPa	1310 ksi	1 mm/min; ISO 527 - 1/2
Flexural Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	9.00 GPa	1310 ksi	ISO 178
Compressive Strength	225 MPa	32600 psi	Test specimen flat tested; ISO 604
Charpy Impact Unnotched	0.550 J/cm <sup>2</sup> @Temperature 23.0 °C	2.62 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179-1/2 eU
Charpy Impact, Notched	0.140 J/cm <sup>2</sup> @Temperature 23.0 °C	0.666 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179-1/2 eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 °C	302 °F	<20000 hours; IEC 60216-P1
	230 °C	446 °F	< 50 hours; IEC 60216-P1
Deflection Temperature at 8.0 MPa	120 °C	248 °F	ISO 75-2
	150 °C	302 °F	

UL RTI Electrical Thermal Properties	Metric @Thickness 1.50 mm	English @Thickness 0.0591 in	(ALL) Comments
UL RTI, Mechanical with Impact	150 °C @Thickness 1.50 mm	302 °F @Thickness 0.0591 in	(ALL)
UL RTI, Mechanical without Impact	150 °C @Thickness 1.50 mm	302 °F @Thickness 0.0591 in	(ALL)
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	(ALL)
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	(BK, NC)
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	ALL
Shrinkage	0.400 % @Temperature 110 °C, Time 605000 sec	0.400 % @Temperature 230 °F, Time 168 hour	Injection molding; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Constant	11 @Frequency 100 Hz	11 @Frequency 100 Hz	IEC 60250
Dielectric Strength	5.00 kV/mm @Thickness 1.00 mm	127 kV/in @Thickness 0.0394 in	IEC 60243-P1
Dissipation Factor	0.20 @Frequency 100 Hz	0.20 @Frequency 100 Hz	IEC 60250
Arc Resistance	125 - 130 sec	125 - 130 sec	ASTM D495
Comparative Tracking Index	125 V	125 V	Test liquid A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	60.0 - 75.0 °C	140 - 167 °F	Injection molding
Nozzle Temperature	80.0 - 100 °C	176 - 212 °F	Injection molding
Melt Temperature	80.0 - 100 °C	176 - 212 °F	Injection molding

Mold Temperature Processing Properties	160 - 190 °C Metric	320 - 374 °F English	Injection molding Comments
	160 - 190 °C	320 - 374 °F	Compression molding
Injection Pressure	>= 15.0 MPa	>= 2180 psi	Compression and injection cavity mold pressure
Back Pressure	0.500 - 2.00 MPa	72.5 - 290 psi	Injection molding
Cure Time	0.167 - 0.333 min	0.00278 - 0.00556 hour	Per 1 mm of wall thickness, injection molding
	0.333 - 0.667 min	0.00556 - 0.0111 hour	Per 1 mm of wall thickness, compression molding

Descriptive Properties	Value	Comments
Chromatic Spectrum	All Colors	
Creep Rupture Strength	Very Good	
Holding Pressure	Approximately 40-60% of injection pressure	
Media Resistance	Very Good	
Moisture Absorption	20 mg	ISO 62, 24 hours at 23°C
Reserves by Peak Temperature	Very High	
Thermal Expansion	Very Slight	

## 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