

Hexion Bakelite™ PF 7592 Phenolic Formaldehyde Resin, Galvanized, Conductive (discontinued **)

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

Material Notes:

Phenolic molding compound, inorganically/organically filled. Shrinkage figures compatible to values of UP 3310 and PF 2560.

Electroplateable. Application areas: Chromium plated oven strips. Information provided by Bakelite AG. Bakelite AG became a part of Hexion in 2005.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexion-Bakelite-PF-7592-Phenolic-Formaldehyde-Resin-Galvanized-Conductive-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ISO 1183
Apparent Bulk Density	0.770 g/cc	0.0278 lb/in ³	ISO 60
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	Injection molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Flexural Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
Flexural Modulus	9.00 GPa	1310 ksi	ISO 178
Charpy Impact Unnotched	0.450 J/cm ² @Temperature 23.0 °C	2.14 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1/2 eU

Thermal Properties	Metric	English	Comments
Deflection Temperature at 8.0 MPa	110 °C	230 °F	ISO 75-2
Shrinkage	0.300 % @Temperature 110 °C, Time 605000 sec	0.300 % @Temperature 230 °F, Time 168 hour	Injection molding; ISO 2577

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	160 - 190 °C	320 - 374 °F	Injection molding
	160 - 190 °C	320 - 374 °F	Compression molding

Processing Properties	Metric MPa	English psi	Comments
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	10 mg	ISO 62, 24 hours at 23°C
Reserves by Peak Temperature	Very High	
Thermal Expansion	Very Slight	

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