

Solvay Specialty Polymers Primef® 4010 Polyphenylene Sulfide (PPS), 40% Glass Fiber Reinforcement (discontin

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 40% Glass Fiber Filler

Material Notes:

Primef 4010 is a 40% glass fiber reinforced polyphenylene sulfide (PPS) that offers enhanced mechanical properties. In general, PPS offers an excellent balance of properties including high temperature resistance, chemical resistance, dimensional stability and electrical characteristics. Because of its inherent flame retardancy, PPS is a good choice for high-temperature electrical and electronic applications. Features: Flame Retardant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Processability; Good Strength; High Flow; High Heat Resistance; Low to No Water Absorption Uses: Availability: Europe Holding Time: 3 sec Cooling Time, 2 mm: 2.5 sec Information provide by Solvay Specialty Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Primef-4010-Polyphenylene-Sulfide-PPS-40-Glass-Fiber-Reinforcement-nbspdiscontin.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	180 MPa @Temperature 23.0 °C	26100 psi @Temperature 73.4 °F	ISO 527-2
Elongation at Break	1.7 % @Temperature 23.0 °C	1.7 % @Temperature 73.4 °F	ISO 527-2
Tensile Modulus	14.0 GPa @Temperature 23.0 °C	2030 ksi @Temperature 73.4 °F	ISO 527-2
Flexural Strength	250 MPa @Temperature 23.0 °C	36300 psi @Temperature 73.4 °F	ISO 178
Flexural Modulus	14.0 GPa @Temperature 23.0 °C	2030 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.50 J/cm	8.43 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	ISO 8302

Maximum Service Temperature, Air Thermal Properties	220 °C Metric	428 °F English	ASTM D794 Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	ISO 75-2/A
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	
Oxygen Index	51 %	51 %	ISO 4598-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Dielectric Constant	3.9 @Frequency 1.00e+6 Hz	3.9 @Frequency 1.00e+6 Hz	IEC 60250
	4.0 @Frequency 1000 Hz	4.0 @Frequency 1000 Hz	IEC 60250
Dielectric Strength	17.0 kV/mm	432 kV/in	IEC 60243-1
Dissipation Factor	0.0020 @Frequency 1000 Hz	0.0020 @Frequency 1000 Hz	IEC 60250
	0.0020 @Frequency 1.00e+6 Hz	0.0020 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	150 V	150 V	IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	290 - 300 °C	554 - 572 °F	
Middle Barrel Temperature	310 - 320 °C	590 - 608 °F	
Front Barrel Temperature	320 - 330 °C	608 - 626 °F	
Nozzle Temperature	320 - 350 °C	608 - 662 °F	
Melt Temperature	320 - 330 °C	608 - 626 °F	
Mold Temperature	150 - 160 °C	302 - 320 °F	
Injection Pressure	50.0 - 150 MPa	7250 - 21800 psi	
Hold Pressure	30.0 - 150 MPa	4350 - 21800 psi	
Back Pressure	0.000 - 1.00 MPa	0.000 - 145 psi	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Additional Properties	Spiral Flow Length - Internal Method: 190 mm		
Forms	Pellets		
Injection Rate	Fast		
Processing Method	Injection Molding		
RoHS Compliance	RoHS Compliant		

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