

Solvay Specialty Polymers Primef® 7010 Polyphenylene Sulfide (PPS), 65% GlassMineral (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), Mineral/Glass-Fiber Filled

Material Notes:

Primef 7010 is a 65% mineral/glass fiber reinforced polyphenylene sulfide (PPS). This grade offers improved mechanical properties versus Primef 7002 (also 65% mineral/glass fiber), but with less fluidity. 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-7010-Polyphenylene-Sulfide-PPS-65-GlassMineral-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.96 g/cc	0.0708 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa @Temperature 23.0 °C	23200 psi @Temperature 73.4 °F	ISO 527-2
Elongation at Break	1.2 % @Temperature 23.0 °C	1.2 % @Temperature 73.4 °F	ISO 527-2
Tensile Modulus	21.0 GPa @Temperature 23.0 °C	3050 ksi @Temperature 73.4 °F	ISO 527-2
Flexural Strength	240 MPa @Temperature 23.0 °C	34800 psi @Temperature 73.4 °F	ISO 178
Flexural Modulus	21.0 GPa @Temperature 23.0 °C	3050 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.80 J/cm	5.25 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.600 W/m-K	4.16 BTU-in/hr-ft ² -°F	ISO 8302

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	ASTM D794
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	58 %	58 %	ISO 4598-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Dielectric Constant	4.9	4.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	5.0	5.0	IEC 60250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	IEC 60243-1
Dissipation Factor	0.0090	0.0090	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.030	0.030	IEC 60250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	200 V	200 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
Screw Speed	3.0 - 10 rpm	3.0 - 10 rpm	

Descriptive Properties	Value	Comments
Additional Properties	Spiral Flow Length - Internal Method: 90.0 mm	
Forms	Pellets	
Injection Rate	Fast	
Processing Method	Injection Molding	
RoHS Compliance	RoHS Compliant	

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