

Solvay Specialty Polymers Primef® 4002 40% GF PPS, High Fluidity Grade (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) Alloy, Glass Reinforced, Flow Enhanced

Material Notes:

Used for injection molding of high performance parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Primef-4002-40-GF-PPS-High-Fluidity-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	Solvay Test Method
Spiral Flow	25.0 cm @Temperature 300 °C	9.84 in @Temperature 572 °F	Solvay Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	160 MPa	23200 psi	ISO 527
Elongation at Break	1.6 %	1.6 %	ISO 527
Tensile Modulus	13.0 GPa	1890 ksi	ISO 527
Flexural Strength	225 MPa	32600 psi	ISO 178
Flexural Modulus	13.0 GPa	1890 ksi	ISO 178
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	ISO 180
Izod Impact, Unnotched	2.50 J/cm	4.68 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.500 W/m-K	3.47 BTU-in/hr-ft ² -°F	ISO 8302
Melting Point	280 °C	536 °F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	ISO 75
Glass Transition Temp, Tg	90.0 °C	194 °F	
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	
Oxygen Index	52 %	52 %	ISO 4589

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 93/167
Dielectric Constant	3.9	3.9	IEC 250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	IEC 243
Dissipation Factor	0.0020	0.0020	IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0020	0.0020	IEC 250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	150 V	150 V	IEC 112

Processing Properties	Metric	English	Comments
Nozzle Temperature	320 - 350 °C	608 - 662 °F	
Melt Temperature	320 - 330 °C	608 - 626 °F	
Mold Temperature	150 - 160 °C	302 - 320 °F	

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