

Toyobo TS301 PPS, 30% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 30% Glass Fiber Filler

Material Notes:

Key Feature: Excellent impact resistance, high flowHigh performance injection-molding resin created from crystalline polyphenylene sulfide, using a special formulation technology developed by Toyobo. Excellent physical, electrical, and thermal properties, corrosion resistant, and inherently flame retardant. PPS resins are used in the electrical, electronic, automotive, and industrial machinery industries.Information provided by Toyobo Co., Ltd

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-TS301-PPS-30-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.0095 cm/cm	0.0095 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	157 MPa	22800 psi	ASMT D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Modulus of Elasticity	10.8 GPa	1570 ksi	ASMT D638
Flexural Yield Strength	206 MPa	29900 psi	Flexural elongation is 2.1%; ASTM D790
Flexural Modulus	9.80 GPa	1420 ksi	ASMT D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 µm/m-°C	5.00 µin/in-°F	MD
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	69.0 µm/m-°C	38.3 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	282 °C	540 °F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability UL 94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.9	3.9	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.0	4.0	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	13.0 kV/mm	330 kV/in	ASTM D149
Dissipation Factor	0.0013	0.0013	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0016	0.0016	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	97 sec	97 sec	ASTM D495
Comparative Tracking Index	155 V	155 V	IEC test

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