

Toyobo TS101 PPS, Glass Fiber/Mineral Reinforced

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

Material Notes:

Key Feature: High dimensional stabilityHigh 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-TS101-PPS-Glass-FiberMineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	2.09 g/cc	0.0755 lb/in ³	ASTM D792
Water Absorption	0.020 %	0.020 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0013 cm/cm	0.0013 in/in	
Linear Mold Shrinkage, Transverse	0.0025 cm/cm	0.0025 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Ultimate	128 MPa	18600 psi	ASMT D638
Elongation at Break	0.70 %	0.70 %	ASTM D638
Modulus of Elasticity	26.5 GPa	3840 ksi	ASMT D638
Flexural Yield Strength	193 MPa	28000 psi	Flexural elongation is 1%; ASTM D790
Flexural Modulus	20.6 GPa	2990 ksi	ASMT D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 µm/m-°C	7.78 µin/in-°F	MD
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	32.0 µm/m-°C	17.8 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
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	5.3	5.3	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	5.5	5.5	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	11.0 kV/mm	279 kV/in	ASTM D149
Dissipation Factor	0.0083	0.0083	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.053	0.053	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	182 sec	182 sec	ASTM D495
Comparative Tracking Index	275 V	275 V	IEC test

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