

Toyobo TS401 HS PPS, 40% Glass Fiber Reinforced

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

Material Notes:

Key Feature: High toughness, high flow. Features high weld strength. High 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-TS401-HS-PPS-40-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0023 cm/cm	0.0023 in/in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Ultimate	197 MPa	28600 psi	ASMT D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Modulus of Elasticity	14.7 GPa	2130 ksi	ASMT D638
Flexural Yield Strength	260 MPa	37700 psi	Flexural elongation is 2.3%; ASTM D790
Flexural Modulus	13.7 GPa	1990 ksi	ASMT D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 µm/m-°C	4.44 µin/in-°F	MD
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	63.0 µm/m-°C	35.0 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	3.7	3.7	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.8	3.8	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	12.0 kV/mm	305 kV/in	ASTM D149
Dissipation Factor	0.0011	0.0011	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0018	0.0018	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	132 sec	132 sec	ASTM D495
Comparative Tracking Index	145 V	145 V	IEC test

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China