

## Toyobo TS201 PPS, Glass Fiber/Mineral Reinforced

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

### Material Notes:

Key Feature: Standard high stiffness - used for metal replacement 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-TS201-PPS-Glass-FiberMineral-Reinforced.php](http://www.lookpolymers.com/polymer_Toyobo-TS201-PPS-Glass-FiberMineral-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.96 g/cc	0.0708 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.020 %	0.020 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	
Linear Mold Shrinkage, Transverse	0.0045 cm/cm	0.0045 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Ultimate	170 MPa	24700 psi	ASMT D638
Elongation at Break	1.4 %	1.4 %	ASTM D638
Modulus of Elasticity	21.6 GPa	3130 ksi	ASMT D638
Flexural Yield Strength	235 MPa	34100 psi	Flexural elongation is 1.5%; ASTM D790
Flexural Modulus	18.7 GPa	2710 ksi	ASMT D790
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 $\mu\text{m}/\text{m}\cdot\text{C}$	6.67 $\mu\text{in}/\text{in}\cdot\text{F}$	MD
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	48.0 $\mu\text{m}/\text{m}\cdot\text{C}$	26.7 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Melting Point	282 $^{\circ}\text{C}$	540 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 260$ $^{\circ}\text{C}$	$\geq 500$ $^{\circ}\text{F}$	ASTM D648

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

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	4.5	4.5	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	5.1	5.1	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	11.0 kV/mm	279 kV/in	ASTM D149
Dissipation Factor	0.0085	0.0085	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.055	0.055	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	137 sec	137 sec	ASTM D495
Comparative Tracking Index	215 V	215 V	IEC test

## Contact Songhan Plastic Technology Co.,Ltd.

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