

TOYOBO PPS TS501

Polyphenylene Sulfide

TOYOBO America, Inc.

Message:

TOYOBO PPS TS501 is a polyphenylene sulfide (PPS) product, which contains a 50% glass fiber reinforced material. It is available in North America. Features include:
flame retardant/rated flame
Good toughness

General Information			
UL YellowCard	E51743-242582		
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Features	Ultra high toughness		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20	%	ASTM D955
Transverse flow	0.85	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18600	MPa	ASTM D638
Tensile Strength (Yield)	200	MPa	ASTM D638
Tensile Elongation (Break)	1.6	%	ASTM D638
Flexural Modulus	14700	MPa	ASTM D790
Flexural Strength (Yield)	280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	93	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Linear thermal expansion coefficient			ASTM D696
Flow	7.0E-6	cm/cm/°C	ASTM D696
Lateral	6.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	12	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	3.90		ASTM D150

1 MHz	3.80		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	1.7E-3		ASTM D150
1 MHz	1.4E-3		ASTM D150
Arc Resistance	133	sec	ASTM D495
Comparative Tracking Index	165	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			

Flexural Elongation, ASTM D790: 2.1 %HDT 264 psi, ASTM D648: >260 °C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

