

TOYOBO PPS TS101

Polyphenylene Sulfide

TOYOBO America, Inc.

Message:

TOYOBO PPS TS101 is a polyphenylene sulfide (PPS) product, which contains glass/mineral filler. It is available in North America.

Features include:

flame retardant/rated flame

High stiffness

Good dimensional stability

General Information			
UL YellowCard	E51743-242576		
Filler / Reinforcement	Glass \Mineral		
Features	Good dimensional stability		
	Rigidity, high		
	Anti-arc		
	Track Resistance		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.08	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.13	%	ASTM D955
Transverse flow	0.25	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	26500	MPa	ASTM D638
Tensile Strength (Yield)	127	MPa	ASTM D638
Tensile Elongation (Break)	0.70	%	ASTM D638
Flexural Modulus	21600	MPa	ASTM D790
Flexural Strength (Yield)	193	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	54	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	1.4E-5	cm/cm/°C	ASTM D696
Lateral	3.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	11	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	5.50		ASTM D150
1 MHz	5.30		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	0.053		ASTM D150
1 MHz	8.3E-3		ASTM D150
Arc Resistance	182	sec	ASTM D495
Comparative Tracking Index	275	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			

Flexural Elongation, ASTM D790: 1 %HDT 264 psi, ASTM D648: >260 °C

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