

TOYOBO PPS TS301

Polyphenylene Sulfide

TOYOBO America, Inc.

Message:

TOYOBO PPS TS301 is a polyphenylene sulfide (PPS) product, which contains a 30% glass fiber reinforced material. It is available in North America. Features include:
flame retardant/rated flame
high liquidity
Impact resistance

General Information			
UL YellowCard	E51743-242579		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Ultra-high impact resistance		
	High liquidity		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	ASTM D955
Transverse flow	0.95	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10800	MPa	ASTM D638
Tensile Strength (Yield)	157	MPa	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	9810	MPa	ASTM D790
Flexural Strength (Yield)	206	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	84	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	9.0E-6	cm/cm/°C	ASTM D696
Lateral	6.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	13	kV/mm	ASTM D149

Dielectric Constant			ASTM D150
1 kHz	4.00		ASTM D150
1 MHz	3.90		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	1.6E-3		ASTM D150
1 MHz	1.3E-3		ASTM D150
Arc Resistance	97.0	sec	ASTM D495
Comparative Tracking Index	155	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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