

TOYOBO PPS TS201 HS

Polyphenylene Sulfide

TOYOBO America, Inc.

Message:

TOYOBO PPS TS201 HS 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

General Information			
UL YellowCard	E51743-242577		
Filler / Reinforcement	Glass \Mineral		
Features	Rigidity, high		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.96	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.15	%	ASTM D955
Transverse flow	0.45	%	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	22600	MPa	ASTM D638
Tensile Strength (Yield)	197	MPa	ASTM D638
Tensile Elongation (Break)	1.4	%	ASTM D638
Flexural Modulus	20600	MPa	ASTM D790
Flexural Strength (Yield)	260	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	76	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	1.2E-5	cm/cm/°C	ASTM D696
Lateral	4.8E-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	5.00		ASTM D150

1 MHz	4.30		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	0.057		ASTM D150
1 MHz	8.5E-3		ASTM D150
Arc Resistance	173	sec	ASTM D495
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			

Flexural Elongation, ASTM D790: 1.6 %HDT 264 psi, ASTM D648: >260 °C

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