

TOYOBO PPS TS201

Polyphenylene Sulfide

TOYOBO America, Inc.

Message:

TOYOBO PPS TS201 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	E51743-242577		
Filler / Reinforcement	Glass \Mineral		
Features	Good dimensional stability		
	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	21600	MPa	ASTM D638
Tensile Strength (Yield)	170	MPa	ASTM D638
Tensile Elongation (Break)	1.4	%	ASTM D638
Flexural Modulus	18600	MPa	ASTM D790
Flexural Strength (Yield)	234	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	68	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	5.10		ASTM D150
1 MHz	4.50		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	0.055		ASTM D150
1 MHz	8.5E-3		ASTM D150
Arc Resistance	137	sec	ASTM D495
Comparative Tracking Index	215	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			

Flexural Elongation, ASTM D790: 1.5 %HDT 264 psi, ASTM D648: >260 °C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

