

TOYOBO PPS TS401 HS

Polyphenylene Sulfide

TOYOBO America, Inc.

Message:

TOYOBO PPS TS401 HS is a polyphenylene sulfide (PPS) product, which contains a 40% glass fiber reinforced material. It is available in North America.

Features include:

- flame retardant/rated flame
- low viscosity
- high liquidity
- high strength
- Good toughness

General Information			
UL YellowCard	E51743-242580		
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Ultra high toughness		
	Low viscosity		
	High strength		
	High liquidity		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.23	%	ASTM D955
Transverse flow	0.90	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14700	MPa	ASTM D638
Tensile Strength (Yield)	197	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	13700	MPa	ASTM D790
Flexural Strength (Yield)	260	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	91	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	8.0E-6	cm/cm/°C	ASTM D696

Lateral	6.3E-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	3.80		ASTM D150
1 MHz	3.70		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	1.8E-3		ASTM D150
1 MHz	1.1E-3		ASTM D150
Arc Resistance	132	sec	ASTM D495
Comparative Tracking Index	145	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			

Flexural Elongation, ASTM D790: 2.3 %HDT 264 psi, ASTM D648: >260 °C

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