

Torelina® A504X90

Polyphenylene Sulfide

Toray Resin Company

Message:

Torelina® A504X90 is a Polyphenylene Sulfide (PPS) product filled with 40% glass fiber. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E41797-233536		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Appearance	Black		
	Natural Color		
Part Marking Code	>PPS-GF40<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.66	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.80	%	
Flow : 3.00 mm ²	0.20	%	
Water Absorption (23°C, 24 hr)	0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	200	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.8	%	ISO 527-2
Flexural Modulus (23°C)	15500	MPa	ISO 178
Flexural Stress (23°C)	305	MPa	ISO 178
Shear Strength (23°C)	80.0	MPa	JIS K7214
Coefficient of Friction ³	0.25		
Taber Abrasion Resistance (1000 Cycles)	50.0	mg	ISO 9352
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	55	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	260	°C	ISO 75-2/A
Melting Temperature	278	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.3E-5	cm/cm/°C	
Transverse	3.1E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	24	kV/mm	IEC 60243-1
Dielectric Constant ⁴ (23°C, 1 MHz)	4.20		IEC 60250
Dissipation Factor ⁵ (23°C, 1 MHz)	2.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.280 mm)	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length ⁶ (320°C, 1.00 mm)	135	mm	Internal Method
NOTE			
1.	80x80x3		
2.	80x80x3mm		
3.	vs. Metal		
4.	60% RH		
5.	60% RH		
6.	98 MPa		

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