

Torelina® A503-F1

Polyphenylene Sulfide

Toray Resin Company

Message:

Torelina® A503-F1 is a Polyphenylene Sulfide (PPS) product filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

High Flow

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	High Flow		
Appearance	Natural Color		
Part Marking Code	>PPS-GF30<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.57	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.90	%	
Flow : 3.00 mm ²	0.30	%	
Water Absorption (23°C, 24 hr)	0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	155	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.7	%	ISO 527-2
Flexural Modulus (23°C)	12000	MPa	ISO 178
Flexural Stress (23°C)	230	MPa	ISO 178
Shear Strength (23°C)	75.0	MPa	JIS K7214
Coefficient of Friction ³	0.22		
Taber Abrasion Resistance (1000 Cycles)	45.0	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			ISO 179
-40°C	No Break		
23°C	25	kJ/m ²	
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	3.0E-5	cm/cm/°C	

Transverse	3.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	25	kV/mm	IEC 60243-1
Dielectric Constant ⁴ (23°C, 1 MHz)	3.20		IEC 60250
Dissipation Factor ⁵ (23°C, 1 MHz)	2.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.350 mm)	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length ⁶ (320°C, 1.00 mm)	230	mm	Internal Method
NOTE			
1.	80x80x3		
2.	80x80x3mm		
3.	vs. Metal		
4.	60% RH		
5.	60% RH		
6.	98 MPa		

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