

Torelina® A670X01

Polyphenylene Sulfide

Toray Resin Company

Message:

Torelina® A670X01 is a Polyphenylene Sulfide (PPS) product. It is available in Asia Pacific, Europe, or North America.

General Information			
Appearance	Natural Color		
Part Marking Code	>PPS-I<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.20	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	2.3	%	
Flow : 3.00 mm ²	2.3	%	
Water Absorption (23°C, 24 hr)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	45.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	25	%	ISO 527-2
Flexural Modulus (23°C)	1800	MPa	ISO 178
Flexural Stress (23°C)	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	40	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	400	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	97.0	°C	ISO 75-2/A
Melting Temperature	278	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.2E-4	cm/cm/°C	
Transverse	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Electric Strength	34	kV/mm	IEC 60243-1
Dielectric Constant ³ (23°C, 1 MHz)	3.00		IEC 60250
Dissipation Factor ⁴ (23°C, 1 MHz)	2.0E-3		IEC 60250
Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length ⁵ (320°C, 1.00 mm)	180	mm	Internal Method
NOTE			
1.	80x80x3		
2.	80x80x3mm		

3.	60% RH
4.	60% RH
5.	98 MPa

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