

Torelina™ A575W20 PPS

TECHNICAL DATA

Product Description

Heat cycle resistance, Low warpage, High flow

Uses

- Automotive Applications
- Automotive Electronics
- Automotive Under the Hood
- Insulation
- Printer
- Sporting Goods
- Switches
- Valves/Valve Parts
- White Goods & Small Appliances

Processing Method

- Injection Molding

ISO Designation

- >PPS-I-(GF+MD)50<

Type

- PPS/GF+Mineral filler reinforced, Elastomer modified

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.70	g/cm³	ISO 1183
Spiral Flow ¹	170	mm	Internal Method
Molding Shrinkage ²			Internal Method
Across Flow : 3.00 mm	0.55	%	
Flow : 3.00 mm	0.20	%	
Water Absorption ³ (24 hr, 23°C)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	150	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Flexural Modulus (23°C)	16500	MPa	ISO 178
Flexural Stress (23°C)	230	MPa	ISO 178
Shear Strength (23°C)	60	MPa	JIS K7214
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	35.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	> 260	°C	ISO 75-2/A
Melting Temperature	278	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.9	cm ³ /cm/°C	
Transverse	2.3	cm ³ /cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·m	IEC 60093
Electric Strength	25	kV/mm	IEC 60243-1
Dielectric Constant (23°C, 1 MHz)	4.4		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.003		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	V-0		UL 94

Toray Industries, Inc.

