

Torelina™ A604

PPS

TECHNICAL DATA

Product Description

GF40%, Low impurity, Toughness

Uses

- Automotive Applications
- Automotive Electronics
- Automotive Under the Hood
- Connectors
- Electrical/Electronic Applications
- Fittings
- Oil/Gas Applications
- Plumbing Parts
- Valves/Valve Parts
- White Goods & Small Appliances

Processing Method

- Injection Molding

ISO Designation

- >PPS-GF40<

Type

- PPS/GF reinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.67	g/cm³	ISO 1183
Spiral Flow ¹	120	mm	Internal Method
Molding Shrinkage ²			Internal Method
Across Flow : 3.00 mm	0.80	%	
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)	205	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	14500	MPa	ISO 178
Flexural Stress (23°C)	290	MPa	ISO 178
Shear Strength (23°C)	80	MPa	JIS K7214
Taber Abrasion Resistance (1000 Cycles)	50	mg	ISO 9352
Coefficient of Friction - vs. Metal	0.24		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60.0	kJ/m²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	> 260	°C	
Melting Temperature	278	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.3	cm ³ /cm/°C	
Transverse	3.5	cm ³ /cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohm·m	IEC 60093
Electric Strength	24	kV/mm	IEC 60243-1
Dielectric Constant (23°C, 1 MHz)	3.6		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.002		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.200 mm)	V-0		UL 94

