

Torelina™ A504 CX1

PPS

TECHNICAL DATA

Product Description

GF40%,Coolant resistance

Uses	- Automotive Applications - Automotive Under the Hood
Processing Method	Injection Molding
ISO Designation	>PPS-GF40<
Type	PPS/GF reinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.66	g/cm ³	ISO 1183
Spiral Flow ¹	135	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)	200	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.8	%	ISO 527-2
Flexural Modulus (23°C)	15000	MPa	ISO 178
Flexural Stress (23°C)	300	MPa	ISO 178
Shear Strength (23°C)	75	MPa	JIS K7214
Taber Abrasion Resistance (1000 Cycles)	50	mg	ISO 9352
Coefficient of Friction - vs. Metal	0.25		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	55.0	kJ/m ²	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	3.1	cm ³ /cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·m	IEC 60093
Electric Strength	24	kV/mm	IEC 60243-1
Dielectric Constant (23°C, 1 MHz)	4.2		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.002		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.28 mm)	V-0		UL 94



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