

Torelina™ A503 X05

PPS

TECHNICAL DATA

Product Description

GF30%, Standard

Processing Method

- Injection Molding

ISO Designation

- >PPS-GF30<

Type

- PPS/GF reinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.57	g/cm³	ISO 1183
Spiral Flow ¹	170	mm	Internal Method
Molding Shrinkage ²			Internal Method
Across Flow : 3.00 mm	0.90	%	
Flow : 3.00 mm	0.30	%	
Water Absorption ³ (24 hr, 23°C)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Flexural Modulus (23°C)	12000	MPa	ISO 178
Flexural Stress (23°C)	220	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	45	mg	ISO 9352
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	30.0	kJ/m²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
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	2.6	cm ⁻⁵ /cm/°C	
Transverse	3.9	cm ⁻⁵ /cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·m	IEC 60093
Electric Strength	23	kV/mm	IEC 60243-1
Dielectric Constant (23°C, 1 MHz)	3.2		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.002		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.35 mm)	V-0		UL 94

Toray Industries, Inc.

