

Torelina™ A570 CX1 PPS

TECHNICAL DATA

Product Description

Dimensional stability, Coolant resistance

Uses	- Automotive Applications - Automotive Electronics
Processing Method	Injection Molding
ISO Designation	>PPS-(GF+MD)65<
Type	PPS/GF+Mineral filler reinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.93	g/cm ³	ISO 1183
Spiral Flow ¹	110	mm	Internal Method
Molding Shrinkage ²			Internal Method
Across Flow : 3.00 mm	0.52	%	
Flow : 3.00 mm	0.24	%	
Water Absorption ³ (24 hr, 23°C)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	180	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.2	%	ISO 527-2
Flexural Modulus (23°C)	21200	MPa	ISO 178
Flexural Stress (23°C)	290	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	30.0	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		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	1.8	cm ³ -5/cm/°C	
Transverse	2.2	cm ³ -5/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·m	IEC 60093
Electric Strength	19	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 to 1.7 mm, BK)	V-0		UL 94

Toray Industries, Inc.

