

Torelina™ A670 T05

PPS

TECHNICAL DATA

Product Description

Unreinforced, Elastomer modified

Uses	• Batteries
Processing Method	• Extrusion • Injection Molding
ISO Designation	• >PPS-I<
Type	• PPS/Unreinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.31	g/cm ³	ISO 1183
Spiral Flow ¹	140	mm	Internal Method
Molding Shrinkage ²			Internal Method
Across Flow : 3.00 mm	1.90	%	
Flow : 3.00 mm	1.50	%	
Water Absorption ³ (24 hr, 23°C)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	70	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	15	%	ISO 527-2
Flexural Modulus (23°C)	3000	MPa	ISO 178
Flexural Stress (23°C)	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	350.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	278	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	7.3	cm ³ /cm/°C	
Transverse	8.4	cm ³ /cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·m	IEC 60093
Electric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant (23°C, 1 MHz)	3.0		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.002		IEC 60250

Notes

¹ Melt Temperature: 320°C, Injection Pressure: 980 bar, 1.00 mm

² 80x80x3mm

³ in water



Toray, Inc.

