

Torelina™ A490MA50 PPS

TECHNICAL DATA

Product Description

High filler, Good epoxy adhesion

Uses	- Automotive Applications - Automotive Electronics
Processing Method	Injection Molding
ISO Designation	>PPS-(GF+MD)55<
Type	PPS/GF+Mineral filler reinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.82	g/cm ³	ISO 1183
Spiral Flow ¹	120	mm	Internal Method
Molding Shrinkage ²			Internal Method
Across Flow : 3.00 mm	0.63	%	
Flow : 3.00 mm	0.13	%	
Water Absorption ³ (24 hr, 23°C)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	160	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Flexural Modulus (23°C)	18000	MPa	ISO 178
Flexural Stress (23°C)	240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179
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	2.0	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	21	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.30 mm, BK)	V-0		UL 94

Notes

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

² 80x80x3mm

³ in water

Toray Industries, Inc.

