

Torelina™ A495M A2 PPS

TECHNICAL DATA

Product Description

Heat cycle resistance, Good epoxy adhesion

Uses	- Automotive Applications - Automotive Electronics
Processing Method	Injection Molding
ISO Designation	>PPS-I-(GF+MD)50<
Type	PPS/GF+Mineral filler reinforced, Elastomer modified

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.71	g/cm ³	ISO 1183
Spiral Flow ¹	120	mm	Internal Method
Molding Shrinkage ²			Internal Method
Across Flow : 3.00 mm	0.69	%	
Flow : 3.00 mm	0.12	%	
Water Absorption ³ (24 hr, 23°C)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	155	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Flexural Modulus (23°C)	13500	MPa	ISO 178
Flexural Stress (23°C)	230	MPa	ISO 178
Shear Strength (23°C)	65	MPa	JIS K7214
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	44.0	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		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	2.0	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
Dielectric Constant (23°C, 1 MHz)	4.6		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.005		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating ⁴ (2.0 mm, BK, Equivalent)	V-0		Internal Method

Toray Industries, Inc.

