TORAY
Innovation by Chemistry

TORELINA™

Torelina™ A470MS01
PPS

TECHNICAL DATA

Product Description

Heat cycle resistance

Uses	• Automotive Applications • Automotive Electronics	• Automotive Under the Hood • Valves/Valve Parts
Processing Method	• Injection Molding	
ISO Designation	• >PPS-I-(GF+MD)55<	
Type	• PPS/GF+Mineral filler reinforced, Elastomer modified	

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.76	g/cm³	ISO 1183
Spiral Flow [1]	125	mm	Internal Method
Molding Shrinkage [2]			Internal Method
Across Flow : 3.00 mm	0.62	%	
Flow : 3.00 mm	0.17	%	
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)	14500	MPa	ISO 178
Flexural Stress (23°C)	240	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	8.5	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	47.0	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	> 260	°C	
Melting Temperature	278	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.8	cm^-5/cm/°C	
Transverse	2.6	cm^-5/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	ohms·m	IEC 60093
Electric Strength	24	kV/mm	IEC 60243-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating [4] (Equivalent)	V-0		Internal Method

Toray Industries, Inc.