Torelina™ A675 GS1
PPS

TECHNICAL DATA

Product Description

Heat cycle resistance, High weld strength

Uses	• Automotive Applications • Automotive Electronics	• Automotive Under the Hood • Batteries	• Valves/Valve Parts • White Goods & Small Appliances
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)	1.67	g/cm³	ISO 1183
Spiral Flow [1]	160	mm	Internal Method
Molding Shrinkage [2]			Internal Method
Across Flow : 3.00 mm	0.71	%	
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)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	12300	MPa	ISO 178
Flexural Stress (23°C)	235	MPa	ISO 178
Shear Strength (23°C)	68	MPa	JIS K7214
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	9.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	55.0	kJ/m²	ISO 179
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	112		ISO 2039-2
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	2.2	cm^-5/cm/°C	
Transverse	2.9	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
Dielectric Constant (23°C, 1 MHz)	3.8		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.005		IEC 60250
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (2.5 mm, BK)	V-0		UL 94