

XENOY™ 1760T resin

Polycarbonate + PBT

SABIC Innovative Plastics Europe

Message:

XENOY 1760T is developed as a easy flow material, for applications such as doorhandles and mirror housings. It is a 11% glass reinforced material with excellent strength and dimensional stability.

General Information			
Filler / Reinforcement	Glass Fiber, 11% Filler by Weight		
Features	Good Dimensional Stability		
	Good Flow		
	Good Strength		
Uses	Handles		
	Housings		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	14.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.50 to 0.90	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.50	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ISO 2039-2
Ball Indentation Hardness (H 358/30)	105	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4500	MPa	ISO 527-2/1
Tensile Stress (Break)	90.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ²	4000	MPa	ISO 178
Flexural Stress	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	3.5	kJ/m ²	
23°C	4.0	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	35	kJ/m ²	

23°C	35	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A
-30°C	3.0	kJ/m ²	
0°C	3.0	kJ/m ²	
23°C	3.0	kJ/m ²	
Unnotched Izod Impact Strength ⁶			ISO 180/1U
-30°C	30	kJ/m ²	
23°C	30	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, Unannealed, 100 mm Span	115	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	105	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	135	°C	ISO 306/B50
--	130	°C	ISO 306/B120
Ball Pressure Test (75°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 80°C	4.0E-5	cm/cm/°C	
Transverse : 23 to 80°C	1.1E-4	cm/cm/°C	
Thermal Conductivity	0.19	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength (3.20 mm, in Oil)	17	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	3.30		
60 Hz	3.30		
1 MHz	3.10		
Dissipation Factor			IEC 60250
50 Hz	2.0E-3		
60 Hz	2.0E-3		
1 MHz	0.020		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, Testing by SABIC)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40.0 to 60.0	°C	
Rear Temperature	230 to 250	°C	
Middle Temperature	240 to 265	°C	
Front Temperature	250 to 270	°C	

Nozzle Temperature	250 to 265	°C
Processing (Melt) Temp	255 to 270	°C
Mold Temperature	60.0 to 100	°C

NOTE

1.	Tensile Bar
2.	2.0 mm/min
3.	80*10*4 sp=62mm
4.	80*10*4 sp=62mm
5.	80*10*4
6.	80*10*4
7.	120*10*4 mm

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