

XENOY™ 6370 resin

Polycarbonate + PBT

SABIC Innovative Plastics

Message:

XENOY 6370 is an impact modified semi-crystalline thermoplastic. blend with 30% glass fibre reinforcement offering toughness and ductility.

General Information			
UL YellowCard	E45329-236739		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Impact modifier		
Features	Semicrystallization		
	Impact modification		
	Good toughness		
	ductility		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	12.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			Internal method
Flow	0.30 - 0.60	%	Internal method
Transverse flow	0.40 - 0.80	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ISO 2039-2
Ball Indentation Hardness (H 358/30)	100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ISO 527-2/1
Tensile Stress (Break)	105	MPa	ISO 527-2/5
Tensile Strain (Break)	2.9	%	ISO 527-2/5
Flexural Modulus ²	7750	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-30°C ³	10	kJ/m ²	ISO 179/1eA
23°C ⁴	9.0	kJ/m ²	ISO 179/1eA

23°C	16	kJ/m ²	ISO 179/2C
Charpy Unnotched Impact Strength ⁵			ISO 179/1eU
-30°C	22	kJ/m ²	ISO 179/1eU
23°C	35	kJ/m ²	ISO 179/1eU
Notched Izod Impact ⁶			ISO 180/1A
-30°C	6.0	kJ/m ²	ISO 180/1A
23°C	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷			ISO 180/1U
-30°C	42	kJ/m ²	ISO 180/1U
23°C	44	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, unannealed, 100 mm span	205	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	140	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	212	°C	ISO 306/A50
--	148	°C	ISO 306/B50
--	150	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	2.5E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	1.1E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.19	W/m/K	ISO 8302
RTI Elec	140	°C	UL 746
RTI Imp	130	°C	UL 746
RTI	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms · cm	IEC 60093
Dielectric Strength			IEC 60243-1
0.800mm, in oil	25	kV/mm	IEC 60243-1
1.60mm, in oil	21	kV/mm	IEC 60243-1
3.20mm, in oil	15	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	3.70		IEC 60250
60 Hz	3.70		IEC 60250
1 MHz	3.50		IEC 60250
Dissipation Factor			IEC 60250
50 Hz	2.0E-3		IEC 60250
60 Hz	2.0E-3		IEC 60250
1 MHz	0.020		IEC 60250
Comparative Tracking Index			IEC 60112

--	300	V	IEC 60112
Solution B	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94
Glow Wire Flammability Index (3.20 mm)	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	40.0 - 60.0	°C	
Rear Temperature	230 - 250	°C	
Middle Temperature	240 - 265	°C	
Front Temperature	250 - 270	°C	
Nozzle Temperature	250 - 265	°C	
Processing (Melt) Temp	255 - 270	°C	
Mold Temperature	60.0 - 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 sp=62mm		
6.	80*10*4		
7.	80*10*4		
8.	120*10*4 mm		

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