XENOY™ X5300WX resin

Polycarbonate + PBT

SABIC Innovative Plastics

Message:

Unreinforced, opaque PBT+PC alloy. Chemical resistance and good mechanical performance. UV-stabilized. Excellent weatherability.

General Information	
Additive	UV stabilizer
Features	Good chemical resistance Good weather resistance
RoHS Compliance	RoHS compliance
Appearance	Opacity
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (266°C/5.0 kg)	26	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (265°C/5.0 kg)	25.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.70 - 0.90	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- [1]	2550	MPa	ASTM D638
--	2250	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	62.0	MPa	ASTM D638
Yield	62.0	MPa	ISO 527-2/50
Fracture [3]	51.0	MPa	ASTM D638
Fracture	51.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield [4]	5.0	%	ASTM D638
Yield	5.0	%	ISO 527-2/50
Fracture [5]	110	%	ASTM D638
Fracture	110	%	ISO 527-2/50
Flexural Modulus			
50.0mm span [6]	2480	MPa	ASTM D790
-- [7]	2180	MPa	ISO 178

Flexural Stress			
--	87.0	MPa	ISO 178
Yield, 50.0mm span [8]	96.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [9] (23°C)	45	kJ/m²	ISO 179/1eA
Notched Izod Impact			
-30°C	180	J/m	ASTM D256
23°C	750	J/m	ASTM D256
-30°C [10]	15	kJ/m²	ISO 180/1A
23°C [11]	50	kJ/m²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)	71.0	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	101	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	87.0	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	88.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [12]	89.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	135	°C	ASTM D1525 [13]
--	120	°C	ISO 306/B50
--	124	°C	ISO 306/B120
Linear thermal expansion coefficient			
Flow: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	7.6E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	7.5E-5	cm/cm/°C	ISO 11359-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	110	°C	
Drying Time	4.0 - 6.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	50 - 80	%	
Rear Temperature	243 - 266	°C	
Middle Temperature	249 - 271	°C	
Front Temperature	254 - 277	°C	
Nozzle Temperature	254 - 271	°C	
Processing (Melt) Temp	260 - 277	°C	
Mold Temperature	65.6 - 87.8	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	50 - 80	rpm	
Vent Depth	0.013 - 0.020	mm	
NOTE			

1.	50 mm/min
2.	Type 1, 50mm/min
3.	Type 1, 50mm/min
4.	Type 1, 50mm/min
5.	Type 1, 50mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4 sp=62mm
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	标准 B (120°C/h), 载荷2 (50N)

Recommended distributors for this material

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