

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		
Appearance	Opacity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	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	cm ³ /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/m ²	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/m ²	ISO 180/1A
23°C ¹¹	50	kJ/m ²	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)

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