

XENOY™ 1103 resin

Polycarbonate + PBT

SABIC Innovative Plastics

Message:

AUTOMOTIVE. Unreinforced, impact modified PBT+PC alloy. Excellent low temperature impact and chemical resistance. Range gray, black colors.

General Information			
UL YellowCard	E121562-100149124		
Additive	Impact modifier		
Features	Impact modification		
	Low temperature impact resistance		
	Good chemical resistance		
Uses	Application in Automobile Field		
Appearance	Black		
	Grey		
Processing Method	Injection molding		
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831)		
	Compressive Stress vs. Strain (ASTM D695)		
	Flexural DMA (ASTM D4065)		
	Pressure-Volume-Temperature (PVT - Zoller Method)		
	Shear DMA (ASTM D4065)		
	Specific Heat vs. Temperature (ASTM D3417)		
	Tensile Creep (ASTM D2990)		
	Tensile Fatigue		
	Tensile Stress vs. Strain (ASTM D638)		
	Thermal Conductivity vs. Temperature (ASTM E1530)		
	Viscosity vs. Shear Rate (ASTM D3835)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.80 - 1.0	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1900	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	51.7	MPa	ASTM D638
Fracture	50.3	MPa	ASTM D638
Tensile Elongation ³			ASTM D638

Yield	5.0	%	ASTM D638
Fracture	150	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	1930	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	77.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	750	J/m	ASTM D256
Instrumented Dart Impact (23°C, Total Energy)	61.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	104	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	87.8	°C	ASTM D648
Vicat Softening Temperature	126	°C	ASTM D1525 ⁶
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	1.7E-4	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	2.0E-4	cm/cm/°C	ASTM E831
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	238 - 260	°C	
Middle Temperature	243 - 266	°C	
Front Temperature	249 - 271	°C	
Nozzle Temperature	249 - 266	°C	
Processing (Melt) Temp	254 - 277	°C	
Mold Temperature	38 - 88	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 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.	1.3 mm/min		
5.	1.3 mm/min		
6.	标准 B (120°C/h), 载荷2 (50N)		

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