

XENOY™ XL1562 resin

Polycarbonate + PBT
SABIC Innovative Plastics Europe

Message:
XENOY XL1562 is an impact modified PBT+PC blend with outstanding chemical resistance, good UV stability and flow properties.

General Information			
UL YellowCard	E45329-102217628		
Additive	Impact Modifier		
Features	Good Chemical Resistance		
	Good Flow		
	Good UV Resistance		
	Impact Modified		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR)			ISO 1133
250°C/2.16 kg	9.00	cm³/10min	
250°C/5.0 kg	27.0	cm³/10min	
Molding Shrinkage ¹			Internal Method
Flow	0.80 to 1.1	%	
Across Flow	0.80 to 1.1	%	
Water Absorption			ISO 62
Saturation, 23°C	0.50	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	54.0	MPa	
Break	42.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	5.0	%	
Break	100	%	
Flexural Modulus ²	2000	MPa	ISO 178
Flexural Stress	74.0	MPa	ISO 178

Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	30.0	mg	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	20	kJ/m ²	
23°C	50	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength ⁵			ISO 180/1A
-30°C	18	kJ/m ²	
23°C	45	kJ/m ²	
Unnotched Izod Impact Strength ⁶			ISO 180/1U
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, Unannealed, 100 mm Span	110	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	80.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	190	°C	ISO 306/A50
--	125	°C	ISO 306/B50
--	128	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 80°C	1.1E-4	cm/cm/°C	
Transverse : 23 to 80°C	1.1E-4	cm/cm/°C	
Thermal Conductivity	0.18	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			IEC 60243-1
0.800 mm, in Oil	32	kV/mm	
1.60 mm, in Oil	25	kV/mm	
3.20 mm, in Oil	17	kV/mm	
Relative Permittivity			IEC 60250
50 Hz	2.80		
60 Hz	2.80		
1 MHz	2.90		
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			UL 94
1.50 mm	HB		
3.00 mm	HB		
Glow Wire Flammability Index (3.20 mm)	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°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 80.0	°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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