

XENOY™ 5720 resin

Polycarbonate + PBT
SABIC Innovative Plastics

Message:
UR, PBT+PC alloy. Outstanding low temperature impact/chemical resistance.

General Information	
UL YellowCard	E121562-220839
Features	Good Chemical Resistance
	Low Temperature Impact Resistance
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)
	Instrumented Impact (Energy) (ASTM D3763)
	Instrumented Impact (Load) (ASTM D3763)
	Shear DMA (ASTM D4065)
	Specific Heat vs. Temperature (ASTM D3417)
	Tensile Creep (ASTM D2990)
	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	1.17	g/cm ³	ASTM D792
Specific Volume	0.856	cm ³ /g	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.0 to 1.2	%	Internal Method
Water Absorption (24 hr)	0.13	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	49.6	MPa	ASTM D638
Tensile Elongation ² (Break)	170	%	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	1720	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 50.0 mm Span)	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	530	J/m	
23°C	800	J/m	
Unnotched Izod Impact (23°C)	3200	J/m	ASTM D4812
Instrumented Dart Impact			ASTM D3763

-40°C, Energy at Peak Load	55.9	J	
23°C, Energy at Peak Load	48.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	116	°C	
1.8 MPa, Unannealed, 6.40 mm	96.1	°C	
RTI Elec	75.0	°C	UL 746
RTI Imp	75.0	°C	UL 746
RTI Str	75.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.5E+16	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
1.60 mm, in Air	29	kV/mm	
3.20 mm, in Air	20	kV/mm	
Dielectric Constant			ASTM D150
100 Hz	2.93		
1 MHz	2.95		
Dissipation Factor			ASTM D150
100 Hz	2.0E-3		
1 MHz	0.030		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	4.0 to 6.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	50 to 80	%	
Rear Temperature	243 to 266	°C	
Middle Temperature	249 to 271	°C	
Front Temperature	254 to 277	°C	
Nozzle Temperature	254 to 271	°C	
Processing (Melt) Temp	260 to 277	°C	
Mold Temperature	65.6 to 87.8	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	50 to 80	rpm	
Vent Depth	0.013 to 0.020	mm	
NOTE			
1.	Type I, 50 mm/min		
2.	Type I, 50 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

