

SABIC XENOY™ PBT/PC 5720物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	49	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	165	%	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	68	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	1720	MPa	ASTM D790
IMPACT			
Izod Impact, unnotched, 23°C	3204	J/m	ASTM D4812
Izod Impact, notched, 23°C	801	J/m	ASTM D256
Izod Impact, notched, -40°C	534	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	48	J	ASTM D3763
Instrumented Impact Energy @ peak, -40°C	55	J	ASTM D3763
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	115	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	96	°C	ASTM D648
Relative Temp Index, Elec	75	°C	UL 746B
Relative Temp Index, Mech w/impact	75	°C	UL 746B
Relative Temp Index, Mech w/o impact	75	°C	UL 746B
PHYSICAL			
Specific Gravity	1.17	-	ASTM D792
Specific Volume	0.85	cm ³ /g	ASTM D792
Water Absorption, (23°C/24hrs)	0.13	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm	1-1.2	%	SABIC method
ELECTRICAL			
Volume Resistivity	9.5E+16	Ω.cm	ASTM D257

Dielectric Strength, in air, 1.6 mm	28.7	kV/mm	ASTM D149
Dielectric Strength, in air, 3.2 mm	19.8	kV/mm	ASTM D149
Relative Permittivity, 100 Hz	2.93	-	ASTM D150
Relative Permittivity, 1 MHz	2.95	-	ASTM D150
Dissipation Factor, 100 Hz	0.002	-	ASTM D150
Dissipation Factor, 1 MHz	0.03	-	ASTM D150
FLAME CHARACTERISTICS			
UL Yellow Card Link	E121562-220839	-	-
UL Recognized, 94HB Flame Class Rating	1.49	mm	UL 94
Injection Molding			
Drying Temperature	110	°C	
Drying Time	4-6	Hrs	
Drying Time (Cumulative)	8	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	260-275	°C	
Nozzle Temperature	255-270	°C	
Front - Zone 3 Temperature	255-275	°C	
Middle - Zone 2 Temperature	250-270	°C	
Rear - Zone 1 Temperature	245-265	°C	
Mold Temperature	65-90	°C	
Back Pressure	0.3-0.7	MPa	
Screw Speed	50-80	rpm	
Shot to Cylinder Size	50-80	%	
Vent Depth	0.013-0.02	mm	

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