

SABIC XENOY™ PBT/PC 1731物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	61	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	120	%	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	93	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2340	MPa	ASTM D790
IMPACT			
Izod Impact, notched, 23°C	667	J/m	ASTM D256
Izod Impact, notched, -30°C	106	J/m	ASTM D256
Izod Impact, notched, 23°C, 6.4mm	160	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	61	J	ASTM D3763
Instrumented Dart Impact Total Energy, -30°C	61	J	ASTM D3763
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	115	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	107	°C	ASTM D648
CTE, -40°C to 95°C, flow	8.28E-05	1/°C	ASTM E831
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	1.22	-	ASTM D792
Specific Volume	0.82	cm ³ /g	ASTM D792
Mold Shrinkage, flow, 3.2 mm	0.5-0.7	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.6-0.8	%	SABIC method
ELECTRICAL			

Arc Resistance, Tungsten {PLC}	5	PLC Code	ASTM D495
Hot Wire Ignition {PLC}	2	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	2	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	0	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A

FLAME CHARACTERISTICS

UL Yellow Card Link	E207780-643578	-	-
UL Yellow Card Link 2	E45587-236856	-	-
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

此数据由我们从该材料的生产商处获得。我们尽最大努力确保此数据的准确性，但是我们对这些数据值不承担任何责任，并强烈建议在最终选料前，就数据值与材料供应商进行验证。