

SABIC XENOY™ PBT/PC 1760E物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	84	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	84	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	3	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	3	%	ASTM D638
Tensile Modulus, 5 mm/min	5310	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	131	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	3910	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	84	MPa	ISO 527
Tensile Stress, break, 5 mm/min	84	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3	%	ISO 527
Tensile Strain, break, 5 mm/min	3	%	ISO 527
Tensile Modulus, 1 mm/min	4800	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	133	MPa	ISO 178
Flexural Modulus, 2 mm/min	4010	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	63	J/m	ASTM D256
Izod Impact, notched, -30°C	60	J/m	ASTM D256
Instrumented Impact, Energy @ peak, -20°C	4	J	ASTM D3763
Instrumented Dart Impact Energy @ peak, -30°C	3	J	ASTM D3763
Instrumented Dart Impact Total Energy, 23°C	8	J	ASTM D3763
Instrumented Dart Impact Total Energy, -30°C	3	J	ASTM D3763
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	3	kJ/m ²	ISO 180/1A

Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	12	kJ/m ²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	121	°C	ASTM D1525
HDT, 1.82 MPa, 3.2mm, unannealed	125	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	116	°C	ASTM D648
CTE, -40°C to 40°C, flow	3.9E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	7.6E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	3.9E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.6E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	135	°C	ISO 306
Vicat Softening Temp, Rate B/120	130	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	101	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.3	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm	0.4-0.6	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.4-0.6	%	SABIC method
Melt Flow Rate, 250°C/5.0 kgf	15	g/10 min	ASTM D1238
Density	1.3	g/cm ³	ISO 1183
Water Absorption, (23°C/saturated)	0.5	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.15	%	ISO 62
Melt Volume Rate, MVR at 265°C/5.0 kg	27	cm ³ /10 min	ISO 1133
Injection Molding			
Drying Temperature	110	°C	
Drying Time	4 - 6	Hrs	
Drying Time (Cumulative)	8	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	260 - 280	°C	
Nozzle Temperature	255 - 275	°C	
Front - Zone 3 Temperature	260 - 280	°C	
Middle - Zone 2 Temperature	255 - 275	°C	
Rear - Zone 1 Temperature	250 - 270	°C	

Mold Temperature	65 - 95	°C
Back Pressure	0.3 - 0.6	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。