

SABIC XENOY™ PBT/PC X5230物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yield, 5 mm/min	58	MPa	ISO 527
Tensile Stress, break, 5 mm/min	42	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.6	%	ISO 527
Tensile Strain, break, 5 mm/min	9	%	ISO 527
Tensile Modulus, 1 mm/min	3850	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	95	MPa	ISO 178
Flexural Modulus, 2 mm/min	3750	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	137	kJ/m ²	ISO 180/1U
Izod Impact, unnotched 80*10*4 - 30°C	120	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 - 30°C	7	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	10	kJ/m ²	ISO 179/1eA
THERMAL			
CTE, -30°C to 80°C, flow	5.4E-05	1/°C	ISO 11359-2
CTE, -30°C to 80°C, xflow	7.4E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	137	°C	ISO 306
Vicat Softening Temp, Rate B/120	140	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	109	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage on Tensile Bar, flow	0.5-0.7	%	SABIC method
Melt Flow Rate, 265°C/5.0 kgf	28	g/10 min	ASTM D1238
Density	1.33	g/cm ³	ISO 1183
Water Absorption, (23°C/saturated)	0.42	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.14	%	ISO 62

Melt Volume Rate, MVR at 265°C/5.0 kg	24	cm ³ /10 min	ISO 1133
Injection Molding			
Drying Temperature	110-120	°C	
Drying Time	4-6	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	265-275	°C	
Nozzle Temperature	260-275	°C	
Front - Zone 3 Temperature	260-280	°C	
Middle - Zone 2 Temperature	250-275	°C	
Rear - Zone 1 Temperature	240-270	°C	
Hopper Temperature	60-80	°C	
Mold Temperature	60-100	°C	

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。