

SABIC XENOY™ PBT/PC X5300WX物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	62	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	51	MPa	ASTM D638
Tensile Strain, yld, Type I, 50 mm/min	5	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	110	%	ASTM D638
Tensile Modulus, 50 mm/min	2550	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	96	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2480	MPa	ASTM D790
Tensile Stress, yield, 50 mm/min	62	MPa	ISO 527
Tensile Stress, break, 50 mm/min	51	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	5	%	ISO 527
Tensile Strain, break, 50 mm/min	110	%	ISO 527
Tensile Modulus, 1 mm/min	2250	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	87	MPa	ISO 178
Flexural Modulus, 2 mm/min	2180	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	747	J/m	ASTM D256
Izod Impact, notched, -30°C	180	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	71	J	ASTM D3763
Izod Impact, notched 80*10*4 +23°C	50	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	15	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	45	kJ/m ²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	135	°C	ASTM D1525

HDT, 0.45 MPa, 3.2 mm, unannealed	101	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	87	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	88	°C	ASTM D648
CTE, -40°C to 40°C, flow	7.02E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	7.56E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	7.E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.5E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	120	°C	ISO 306
Vicat Softening Temp, Rate B/120	124	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	89	°C	ISO 75/Af

PHYSICAL

Specific Gravity	1.23	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm	0.7-0.9	%	SABIC method
Melt Flow Rate, 266°C/5.0 kgf	26	g/10 min	ASTM D1238
Density	1.23	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	25	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	260-275	°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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