

SABIC XENOY™ PBT/PC X5630Q物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yield, 5 mm/min	56	MPa	ISO 527
Tensile Stress, break, 5 mm/min	41	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.3	%	ISO 527
Tensile Strain, break, 5 mm/min	14	%	ISO 527
Tensile Modulus, 1 mm/min	4200	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	92	MPa	ISO 178
Flexural Modulus, 2 mm/min	4100	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	121	kJ/m ²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -30°C	80	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	5	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	16	kJ/m ²	ISO 179/1eA
THERMAL			
CTE, -30°C to 80°C, flow	3.8E-05	1/°C	ISO 11359-2
CTE, -30°C to 80°C, xflow	1.E-04	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	110	°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	20	g/10 min	ASTM D1238
Density	1.35	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	16	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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