

# SABIC XENOY™ PBT/PC 6620U物性表

属性	典型值	UNITS	测试手段
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 50 mm/min	43	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	32	MPa	ASTM D638
Tensile Strain, yld, Type I, 50 mm/min	4.2	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	145	%	ASTM D638
Tensile Modulus, 50 mm/min	1780	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	63	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	1780	MPa	ASTM D790
Tensile Stress, yield, 50 mm/min	41	MPa	ISO 527
Tensile Stress, break, 50 mm/min	31	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	3.9	%	ISO 527
Tensile Strain, break, 50 mm/min	19.4	%	ISO 527
Tensile Modulus, 1 mm/min	1830	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	60	MPa	ISO 178
Flexural Modulus, 2 mm/min	1690	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	1602	J/m	ASTM D4812
Izod Impact, notched, 23°C	897	J/m	ASTM D256
Izod Impact, notched, -30°C	667	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	56	J	ASTM D3763
Izod Impact, notched 80*10*4 +23°C	54	kJ/m <sup>2</sup>	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	51	kJ/m <sup>2</sup>	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	72	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL</b>			
Vicat Softening Temp, Rate B/50	123	°C	ASTM D1525

HDT, 0.45 MPa, 6.4 mm, unannealed	98	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	60	°C	ASTM D648
CTE, -40°C to 40°C, flow	9.89E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	1.05E-04	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	9.89E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.05E-04	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	118	°C	ISO 306
Vicat Softening Temp, Rate B/120	121	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	50	°C	ISO 75/Af
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
<b>PHYSICAL</b>			
Specific Gravity	1.2	-	ASTM D792
Specific Volume	0.83	cm <sup>3</sup> /g	ASTM D792
Mold Shrinkage, flow, 3.2 mm	1.6-1.8	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	1.6-1.8	%	SABIC method
Melt Flow Rate, 266°C/5.0 kgf	21.9	g/10 min	ASTM D1238
Density	1.21	g/cm <sup>3</sup>	ISO 1183
Water Absorption, (23°C/saturated)	0.14	%	ISO 62-1
Melt Volume Rate, MVR at 265°C/5.0 kg	17	cm <sup>3</sup> /10 min	ISO 1133
<b>ELECTRICAL</b>			
Arc Resistance, Tungsten {PLC}	5	PLC Code	ASTM D495
Hot Wire Ignition {PLC}	3	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	1	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	0	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A
<b>FLAME CHARACTERISTICS</b>			
UL Yellow Card Link	E207780-101089446	-	-
UL Recognized, 94HB Flame Class Rating	1.47	mm	UL 94

Injection Molding		
Drying Temperature	105-115	°C
Drying Time	2-4	Hrs
Drying Time (Cumulative)	6	Hrs
Maximum Moisture Content	0.02	%
Melt Temperature	250-270	°C
Nozzle Temperature	250-270	°C
Front - Zone 3 Temperature	250-265	°C
Middle - Zone 2 Temperature	240-255	°C
Rear - Zone 1 Temperature	230-245	°C
Mold Temperature	40-80	°C
Back Pressure	0.2-0.3	MPa
Shot to Cylinder Size	50-80	%
Vent Depth	0.013-0.02	mm

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