

XENOY™ 6620U resin

Polycarbonate + PBT

SABIC Innovative Plastics

Message:

PBT+PC, Unfilled, Impact Modified, UV stabilized. Outstanding low temperature impact performance and chemical resistance.

General Information			
UL YellowCard	E121562-221088		
Additive	Impact Modifier		
	UV Stabilizer		
Features	Good Chemical Resistance		
	Impact Modified		
	Low Temperature Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.20	g/cm ³	ASTM D792
--	1.21	g/cm ³	ISO 1183
Specific Volume	0.835	cm ³ /g	ASTM D792
Melt Mass-Flow Rate (MFR) (266°C/5.0 kg)	22	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (265°C/5.0 kg)	17.1	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Flow : 3.20 mm	1.6 to 1.8	%	
Across Flow : 3.20 mm	1.6 to 1.8	%	
Water Absorption (Saturation, 23°C)	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1780	MPa	ASTM D638
--	1830	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	43.7	MPa	ASTM D638
Yield	41.1	MPa	ISO 527-2/50
Break ³	32.9	MPa	ASTM D638
Break	31.7	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	4.2	%	ASTM D638
Yield	3.9	%	ISO 527-2/50

Break ⁵	150	%	ASTM D638
Break	19	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span ⁶	1780	MPa	ASTM D790
-- ⁷	1700	MPa	ISO 178
Flexural Stress			
--	60.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	63.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	72	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C	670	J/m	ASTM D256
23°C	900	J/m	ASTM D256
-30°C ¹⁰	51	kJ/m ²	ISO 180/1A
23°C ¹¹	54	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	1600	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	56.3	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	98.9	°C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm	60.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	50.5	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	123	°C	ASTM D1525 ¹³
--	119	°C	ISO 306/B50
--	122	°C	ISO 306/B120
CLTE			
Flow : -40 to 40°C	9.9E-5	cm/cm/°C	
Transverse : -40 to 40°C	1.0E-4	cm/cm/°C	
RTI Elec	75.0	°C	UL 746
RTI Imp	75.0	°C	UL 746
RTI Str	75.0	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance ¹⁴	PLC 5		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 1		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.47 mm)	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	104 to 116	°C
Drying Time	2.0 to 4.0	hr
Drying Time, Maximum	6.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	50 to 80	%
Rear Temperature	232 to 246	°C
Middle Temperature	241 to 254	°C
Front Temperature	249 to 266	°C
Nozzle Temperature	249 to 271	°C
Processing (Melt) Temp	249 to 271	°C
Mold Temperature	37.8 to 82.2	°C
Back Pressure	0.172 to 0.345	MPa
Vent Depth	0.013 to 0.020	mm

NOTE

1. 50 mm/min
2. Type I, 50 mm/min
3. Type I, 50 mm/min
4. Type I, 50 mm/min
5. Type I, 50 mm/min
6. 1.3 mm/min
7. 2.0 mm/min
8. 1.3 mm/min
9. 80*10*4 sp=62mm
10. 80*10*4
11. 80*10*4
12. 80*10*4 mm
13. Rate B (120°C/h), Loading 2 (50 N)
14. Tungsten Electrode

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