

XENOY™ RESIN 6620U

REGION AMERICAS

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20260509

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
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
IMPACT			
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/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	51	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	72	kJ/m²	ISO 179/1eA
THERMAL			
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

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CHEMISTRY THAT MATTERS™



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Relative Temp Index, Mech w/o impact	75	°C	UL 746B
PHYSICAL			
Specific Gravity	1.2	-	ASTM D792
Specific Volume	0.83	cm³/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/cm³	ISO 1183
Water Absorption, (23°C/saturated)	0.14	%	ISO 62-1
Melt Volume Rate, MVR at 265°C/5.0 kg	17	cm³/10 min	ISO 1133
ELECTRICAL			
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
FLAME CHARACTERISTICS			
UL Yellow Card Link	E121562-221088	-	-
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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