

SABIC Innovative Plastics Xenoy[®] XL1339U PC+PET (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

XENOY XL1339U is an unreinforced amorphous PC+PET blend, offering excellent impact performance over a wide temperature range. It combines very good flow characteristics with high heat resistance. XL1339U has excellent dimension stability, good adhesion to PU based glues and paints, and good UV resistance. XL1339U was developed for automotive applications like A-pillars, painted and unpainted door handles, front grills, etc. This grade is a XL1339 with improved UV performance. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-XL1339U-PCPET-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23 [°] C / 50% RH; ISO 62
Water Absorption at Saturation	0.70 % @Temperature 23.0 [°] C	0.70 % @Temperature 73.4 [°] F	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	on tensile bar; SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	on tensile bar; SABIC Method
Melt Flow	4.0 g/10 min @Load 1.20 kg, Temperature 265 [°] C	4.0 g/10 min @Load 2.65 lb, Temperature 509 [°] F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	95.0 MPa	13800 psi	ISO 2039-1
Tensile Strength at Break	40.0 MPa	5800 psi	50 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	50 mm/min; ISO 527
Elongation at Break	70 %	70 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
Flexural Yield Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178

Mechanical Properties Izod Impact, Notched (ISO)	15.0 kJ/m ² Metric	7.14 ft-lb/in ² English	Comments 80*10*4, ISO 180/1A
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	38.0 kJ/m ²	18.1 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -10.0 Â°C	@Temperature 14.0 Â°F	
	40.0 kJ/m ²	19.0 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	NB	NB	80*10*4; ISO 180/1U
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact Unnotched	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/2C
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	3.50 J/cm ²	16.7 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	4.50 J/cm ²	21.4 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0		

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/2C
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	20	20	CS-17; SABIC Method
	@Load 1.00 kg	@Load 2.20 lb	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 µm/m-°C	41.7 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Thermal Conductivity	0.180 W/m-K	1.25 BTU-in/hr-ft ² -°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	130 °C	266 °F	Rate B/50; ISO 306
	135 °C	275 °F	Rate B/120; ISO 306
	140 °C	284 °F	Rate A/50; ISO 306
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	750 °C	1380 °F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 2.70 mm	@Thickness 0.106 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	3.1	3.1	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.3	3.3	

Electrical Properties	Metric	English	IEC 60250 Comments
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	17.0 kV/mm @Thickness 3.20 mm	432 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.0020 @Frequency 50.0 - 60.0 Hz	0.0020 @Frequency 50.0 - 60.0 Hz	IEC 60250
	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Å°C +/- 2Å°C	PASSES	IEC 60695-10-2

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