

## SABIC Innovative Plastics Xenoy<sup>®</sup> X2500UV PC+PET (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

XENOY X2500UV is a medium viscosity, unfilled, elastomer modified PC/PET blend with excellent heat and impact performance. ISO1043-label: PC+PET-I.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Xenoy-X2500UV-PCPET-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X2500UV-PCPET-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23 <sup>°</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.70 %	0.70 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	on Tensile Bar; SABIC Method
	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	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	9.0 g/10 min @Load 2.16 kg, Temperature 265 <sup>°</sup> C	9.0 g/10 min @Load 4.76 lb, Temperature 509 <sup>°</sup> F	ASTM D1238
Melt Index of Compound	4.0 g/10 min @Load 1.20 kg, Temperature 265 <sup>°</sup> C	4.0 g/10 min @Load 2.65 lb, Temperature 509 <sup>°</sup> F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	95.0 MPa	13800 psi	ISO 2039-1
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
	56.0 MPa	8120 psi	50 mm/min; ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	ASTM D638
	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
	57.0 MPa	8270 psi	50 mm/min; ISO 527
Elongation at Break	70 %	70 %	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	100 %	100 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.20 GPa	319 ksi	50 mm/min; ASTM D638
	2.20 GPa	319 ksi	1 mm/min; ISO 527
Flexural Strength	79.0 MPa	11500 psi	ASTM D790
Flexural Yield Strength	79.0 MPa	11500 psi	1.3 mm/min, 50 mm span; ASTM D790
	80.0 MPa	11600 psi	2 mm/min; ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
	2.15 GPa	312 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.15 GPa	312 ksi	2 mm/min; ISO 178
Izod Impact, Notched	6.00 J/cm	11.2 ft-lb/in	ASTM D256
	2.00 J/cm	3.75 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.50 J/cm	8.43 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Notched (ISO)	40.0 kJ/m <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	25.0 kJ/m <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	

Charpy Impact Unnotched Mechanical Properties	Metric @ Temperature -30.0 Â°C	English @ Temperature -22.0 Â°F	Comments Edgew 80*10*4 sp=62mm; ISO 179/1eA
Charpy Impact, Notched	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	3.00 J/cmÂ² @ Temperature -30.0 Â°C	14.3 ft-lb/inÂ² @ Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	60.0 J @ Temperature 23.0 Â°C	44.3 ft-lb @ Temperature 73.4 Â°F	ASTM D3763
Taber Abrasion, mg/1000 Cycles	20	20	CS-17, 1 kg; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ASTM E 831
	@ Temperature -40.0 - 40.0 Â°C	@ Temperature -40.0 - 104 Â°F	
	82.0 Âµm/m-Â°C	45.6 Âµin/in-Â°F	ISO 11359-2
	@ Temperature 23.0 - 80.0 Â°C	@ Temperature 73.4 - 176 Â°F	
CTE, linear, Transverse to Flow	85.0 Âµm/m-Â°C	47.2 Âµin/in-Â°F	ASTM E 831
	@ Temperature -40.0 - 40.0 Â°C	@ Temperature -40.0 - 104 Â°F	
	87.0 Âµm/m-Â°C	48.3 Âµin/in-Â°F	ISO 11359-2
	@ Temperature 23.0 - 80.0 Â°C	@ Temperature 73.4 - 176 Â°F	
Thermal Conductivity	0.180 W/m-K	1.25 BTU-in/hr-ftÂ²- Â°F	ISO 8302
Deflection Temperature at 1.8 MPa (264 psi)	108 Â°C	226 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af  unannealed; ASTM D648
	@ Thickness 3.20 mm	@ Thickness 0.126 in	
Vicat Softening Point	135 Â°C	275 Â°F	Rate B/50; ASTM D1525
	135 Â°C	275 Â°F	Rate B/50; ISO 306
	136 Â°C	277 Â°F	Rate B/120; ISO 306
	145 Â°C	293 Â°F	Rate A/50; ISO 306
	HB	HB	

Thermal Properties	Metric	English	Comments
Glow Wire Test	750 Å°C	1380 Å°F	IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	@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	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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

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