

SABIC Innovative Plastics Xenoy® XD1507S PBT+PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

XENOY XD1507S is an impact modified PBT+PC blend with outstanding chemical resistance, good UV stability and flow properties, designed for self coloured, optiwall bumper facias. 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-XD1507S-PBTPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 % @Temperature 23.0 ^o C	0.50 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	on tensile bar; SABIC Method
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 250 ^o C	14 g/10 min @Load 4.76 lb, Temperature 482 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	50 mm/min; ISO 527
Tensile Strength, Yield	52.0 MPa	7540 psi	50 mm/min; ISO 527
Elongation at Break	>= 65 %	>= 65 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.15 GPa	312 ksi	1 mm/min; ISO 527
Flexural Yield Strength	70.0 MPa	10200 psi	2 mm/min; ISO 178
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ² @Temperature -40.0 ^o C	7.14 ft-lb/in ² @Temperature -40.0 ^o F	80*10*4; ISO 180/1A
	20.0 kJ/m ² @Temperature 0.000 ^o C	9.52 ft-lb/in ² @Temperature 32.0 ^o F	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
	45.0 kJ/m ² @Temperature 23.0 Â°C	21.4 ft-lb/in. ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	61.1 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	110 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	61.1 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
Thermal Conductivity	0.180 W/m-K	1.25 BTU-in/hr-ftÂ²- Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	105 Â°C	221 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Â°C	158 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	123 Â°C	253 Â°F	Rate B/50; ISO 306
	126 Â°C	259 Â°F	Rate B/120; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94 by SABIC-IP

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 @Frequency 1.00e+6 Hz	3.1 @Frequency 1.00e+6 Hz	IEC 60250
	3.3 @Frequency 50.0 - 60.0 Hz	3.3 @Frequency 50.0 - 60.0 Hz	IEC 60250
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

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250

Descriptive Properties	Value	Comments
Ball Pressure Test, 75Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China