

SABIC Innovative Plastics Xenoy® XD1607 PBT+PC (Europe-Africa-Middle East)

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

Material Notes:

22% Glass filled PBT+PC with a designed balance between surface appearance and mechanical properties sufficient for automotive doorhandle requirements. Special suitable for gas assist mouldings .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-XD1607-PBTPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23 [°] C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 % @Temperature 23.0 [°] C	0.50 % @Temperature 73.4 [°] F	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	on tensile bar; SABIC Method
Melt Flow	11 g/10 min @Load 5.00 kg, Temperature 250 [°] C	11 g/10 min @Load 11.0 lb, Temperature 482 [°] F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	115 MPa	16700 psi	ISO 2039-1
Tensile Strength at Break	110 MPa	16000 psi	5 mm/min; ISO 527
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	7.00 GPa	1020 ksi	1 mm/min; ISO 527
Flexural Strength	165 MPa	23900 psi	2 mm/min; ISO 178
Flexural Modulus	6.50 GPa	943 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -30.0 [°] C	2.86 ft-lb/in ² @Temperature -22.0 [°] F	80*10*4; ISO 180/1A
	7.00 kJ/m ² @Temperature 23.0 [°] C	3.33 ft-lb/in ² @Temperature 73.4 [°] F	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	10.0 J/m ² @Temperature 23.0 Â°C	15.0 ft-lb/in ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Taber Abrasion, mg/1000 Cycles	30 @Load 1.00 kg	30 @Load 2.20 lb	CS-17; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	22.2 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)	120 Â°C	248 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	126 Â°C	259 Â°F	Rate B/50; ISO 306
	130 Â°C	266 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
	0.020	0.020	

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

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

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