

SABIC Innovative Plastics Xenoy[®] XD549S 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 XD549S is an automotive grade, designed for thin wall (2.5 mm.) direct gated exterior parts. The material has an excellent flow. Xenoy XD549S can be painted with primerless solvent or waterbased paint systems. This grade has similar performance as CL300. 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-XD549S-PBTPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 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	0.0070 - 0.011 cm/cm	0.0070 - 0.011 in/in	on tensile bar; SABIC Method
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 250 [°] C	13 g/10 min @Load 4.76 lb, Temperature 482 [°] F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	14 g/10 min @Load 2.16 kg, Temperature 250 [°] C	14 g/10 min @Load 4.76 lb, Temperature 482 [°] F	ISO 1133
	37 g/10 min @Load 5.00 kg, Temperature 250 [°] C	37 g/10 min @Load 11.0 lb, Temperature 482 [°] F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	40 g/10 min @Load 5.00 kg, Temperature 250 [°] C	40 g/10 min @Load 11.0 lb, Temperature 482 [°] F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	95.0 MPa	13800 psi	ISO 2039-1
Tensile Strength at Break	45.0 MPa	6530 psi	50 mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ISO 527
Elongation at Break	100 %	100 %	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	2.10 GPa	305 ksi	1 mm/min; ISO 527
Flexural Yield Strength	78.0 MPa	11300 psi	2 mm/min; ISO 178
Flexural Modulus	2.00 GPa	290 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	26.0 kJ/m ²	12.4 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -10.0 °C	@Temperature 14.0 °F	
	49.0 kJ/m ²	23.3 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	30	30	CS-17; SABIC Method
	@Load 1.00 kg	@Load 2.20 lb	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	86.0 μm/m-°C	47.8 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)	100 °C	212 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	123 °C	253 °F	Rate B/50; ISO 306
	127 °C	261 °F	Rate B/120; ISO 306
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flame Spread	50.0 mm/min	1.97 in/min	FMVSS 302
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Thermal Properties	Metric	English	Comments
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	
Dielectric Constant	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	
Dissipation Factor	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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