

SABIC Innovative Plastics Xenoy® 1105 PBT+PC (Asia Pacific)

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

Material Notes:

PBT/PC blend, injection molding grade, non-reinforced, impact modified, excellent toughness at low temperatures, very good paintability

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-1105-PBTPC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	16 g/10 min	16 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	
	16 g/10 min	16 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ISO 868
Tensile Strength at Break	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
	47.0 MPa	6820 psi	Type I, 50 mm/min; ASTM D638
	50.0 MPa	7250 psi	50 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
	48.0 MPa	6960 psi	Type I, 50 mm/min; ASTM D638
	52.0 MPa	7540 psi	50 mm/min; ISO 527
Elongation at Break	7.3 %	7.3 %	Flexural Strain, break, 2 mm/min; ISO 178
	110 %	110 %	Type I, 5 mm/min; ASTM D638
	116 %	116 %	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	120 %	120 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.1 %	4.1 %	Type I, 5 mm/min; ASTM D638
	4.2 %	4.2 %	Type I, 50 mm/min; ASTM D638
	4.5 %	4.5 %	50 mm/min; ISO 527
Tensile Modulus	1.98 GPa	287 ksi	5 mm/min; ASTM D638
	2.01 GPa	292 ksi	50 mm/min; ASTM D638
	2.07 GPa	300 ksi	1 mm/min; ISO 527
Flexural Strength	74.0 MPa	10700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	76.0 MPa	11000 psi	1.3 mm/min, 50 mm span; ASTM D790
	78.0 MPa	11300 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.01 GPa	292 ksi	2 mm/min; ISO 178
Izod Impact, Notched	7.55 J/cm	14.1 ft-lb/in	ASTM D256
	3.72 J/cm	6.97 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	4.89 J/cm	9.16 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.87 J/cm	12.9 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	6.95 J/cm	13.0 ft-lb/in	ASTM D256
	@Temperature -10.0 °C	@Temperature 14.0 °F	
	7.15 J/cm	13.4 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Notched (ISO)	63.0 kJ/mÂ²	30.0 ft-lb/inÂ²	80*10*4; ISO 180/1A
	34.0 kJ/mÂ²	16.2 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -40.0	@Temperature -40.0	

Mechanical Properties	°C Metric	°F English	Comments
	51.0 kJ/mA ²	24.3 ft-lb/inA ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	6.20 J/cmA ²	29.5 ft-lb/inA ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	4.70 J/cmA ²	22.4 ft-lb/inA ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	109 °C	228 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	115 °C	239 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	97.0 °C	207 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	122 °C	252 °F	Rate B/50; ASTM D1525
	122 °C	252 °F	Rate B/50; ISO 306
	123 °C	253 °F	Rate B/120; ISO 306

Descriptive Properties	Value	Comments
Specific Volume	1.2cm ³ /g	ASTM D792

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