

SABIC Innovative Plastics Geloy XTPM309E ASA+PC (Europe-Africa-Middle East)

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

Material Notes:

XTPM309E is a high heat resistant ASA+PC. It shows high impact retention, which can be positioned for various outdoor and indoor applications requiring superior heat aging properties and colour stability. Typical properties measured on natural material. 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-Geloy-XTPM309E-ASAPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.60 % @Temperature 23.0 °C	0.60 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	on tensile bar; SABIC Method
Melt Flow	4.0 g/10 min @Load 10.0 kg, Temperature 220 °C	4.0 g/10 min @Load 22.0 lb, Temperature 428 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	6.0 g/10 min @Load 5.00 kg, Temperature 240 °C	6.0 g/10 min @Load 11.0 lb, Temperature 464 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	17 g/10 min @Load 5.00 kg, Temperature 260 °C	17 g/10 min @Load 11.0 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	61.0 MPa	8850 psi	5 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D 638
	64.0 MPa	9280 psi	50 mm/min; ISO 527
	67.0 MPa	9720 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D 638
	55.0 MPa	7980 psi	5 mm/min; ISO 527
	58.0 MPa	8410 psi	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Elongation at Break	>= 100 %	>= 100 %	Type I, 50 mm/min; ASTM D 638
	>= 100 %	>= 100 %	Type I, 5 mm/min; ASTM D 638
	>= 100 %	>= 100 %	5 mm/min; ISO 527
	>= 100 %	>= 100 %	50 mm/min; ISO 527
Elongation at Yield	5.1 %	5.1 %	5 mm/min; ISO 527
	5.2 %	5.2 %	Type I, 5 mm/min; ASTM D 638
	5.3 %	5.3 %	50 mm/min; ISO 527
	5.4 %	5.4 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.31 GPa	335 ksi	5 mm/min; ASTM D 638
	2.31 GPa	335 ksi	1 mm/min; ISO 527
Flexural Yield Strength	85.0 MPa	12300 psi	2 mm/min; ISO 178
Flexural Modulus	2.25 GPa	326 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D 256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.70 J/cm	8.81 ft-lb/in	ASTM D 256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	5.70 J/cm	10.7 ft-lb/in	ASTM D 256
	@Temperature -10.0 °C	@Temperature 14.0 °F	
	6.75 J/cm	12.6 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.20 J/cm	13.5 ft-lb/in	ASTM D 256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	26.0 kJ/m ²	12.4 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -10.0 °C	@Temperature 14.0 °F	

Mechanical Properties	Metric	English	Comments
	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	56.0 kJ/m ²	26.6 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.40 J/cm ²	11.4 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 J/cm ²	28.6 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	103 J	76.0 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Hot Ball Pressure Test	<= 130 °C	<= 266 °F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	113 °C	235 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	131 °C	268 °F	Rate B/50; ISO 306
	132 °C	270 °F	Rate B/120; ISO 306
	143 °C	289 °F	Rate A/50; ISO 306
Glow Wire Test	750 °C	1380 °F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.40e+15 ohm-cm	4.40e+15 ohm-cm	ASTM D 257
Surface Resistance	1.30e+16 ohm	1.30e+16 ohm	ASTM D 257
Dielectric Strength	27.3 kV/mm	693 kV/in	in oil; ASTM D 149
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	0.012 Metric	0.012 English	Comments
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D 130

Descriptive Properties	Value	Comments
Ball Pressure Test, 125°C +/- 2°C	PASS	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