

SABIC Innovative Plastics Gelay XTPM307 ASA+PC (Europe-Africa-Middle East)

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

Material Notes:

XTPM307 is a high heat resistant PC/ASA with improved processing stability over HRA150. Typical values 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-Gelay-XTPM307-ASAPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 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
Melt Flow	5.0 g/10 min @Load 10.0 kg, Temperature 220 °C	5.0 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
	16 g/10 min @Load 5.00 kg, Temperature 260 °C	16 g/10 min @Load 11.0 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	50 g/10 min @Load 10.0 kg, Temperature 260 °C	50 g/10 min @Load 22.0 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	5 mm/min; ISO 527
	60.0 MPa	8700 psi	50 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 5 mm/min; ASTM D 638
	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D 638
	53.0 MPa	7690 psi	5 mm/min; ISO 527

Mechanical Properties	57.0 MPa Metric	8270 psi English	Type I, 50 mm/min; ASTM D 638 Comments
	58.0 MPa	8410 psi	50 mm/min; ISO 527
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	4.7 %	4.7 %	5 mm/min; ISO 527
	4.7 %	4.7 %	50 mm/min; ISO 527
	4.8 %	4.8 %	Type I, 50 mm/min; ASTM D 638
	4.8 %	4.8 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.28 GPa	331 ksi	5 mm/min; ASTM D 638
	2.35 GPa	341 ksi	1 mm/min; ISO 527
Flexural Yield Strength	84.0 MPa	12200 psi	2 mm/min; ISO 178
Flexural Modulus	2.21 GPa	321 ksi	2 mm/min; ISO 178
Izod Impact, Notched	2.05 J/cm	3.84 ft-lb/in	ASTM D 256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.45 J/cm	4.59 ft-lb/in	ASTM D 256
	@Temperature -10.0 °C	@Temperature 14.0 °F	
	5.95 J/cm	11.1 ft-lb/in	ASTM D 256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	6.40 J/cm	12.0 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	17.0 kJ/m ²	8.09 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	
	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	@Temperature 0.000 °C Metric	@Temperature 32.0 °F English	Comments
	39.0 kJ/m ²	26.1 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	120 J	88.5 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 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Hot Ball Pressure Test	<= 105 °C	<= 221 °F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	103 °C	217 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	116 °C	241 °F	Rate B/50; ISO 306
	118 °C	244 °F	Rate B/120; ISO 306
	138 °C	280 °F	Rate A/50; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.20e+15 ohm-cm	4.20e+15 ohm-cm	ASTM D 257
Surface Resistance	1.50e+16 ohm	1.50e+16 ohm	ASTM D 257
Dielectric Strength	27.5 kV/mm	699 kV/in	in oil; ASTM D 149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Dissipation Factor	0.0153	0.0153	ASTM D 150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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

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