

SABIC Innovative Plastics GELOY XTPM405 ASA+PC

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

Material Notes:

High flow PC/ASA with improved impact at room and low temperatures. Improved release. Excellent weatherability for outdoor unpainted or clearcoated applications. Injection Moldable with large color gamut.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-GELOY-XTPM405-ASAPC.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Viscosity	120000 cP	120000 cP	Melt Viscosity, 260°C, 1500 sec-1; ISO 11443
Melt Flow	14 g/10 min	14 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	30 g/10 min	30 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	50 mm/min; ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	50 mm/min; ISO 527
	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	55 %	55 %	50 mm/min; ISO 527
	90 %	90 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	5 mm/min; ASTM D638
	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	75.0 MPa	10900 psi	2 mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
Izod Impact, Notched	14.14 J/cm	26.49 ft-lb/in	ASTM D256
	1.30 J/cm	2.44 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Mechanical Properties	¹ 36. J/cm Metric	² 55 ft-lb/in English	Comments ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Notched (ISO)	65.0 kJ/m ²	30.9 ft-lb/in ²	80*10*4; ISO 180/1A
	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/2C
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	40.0 J	29.5 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	103 °C	217 °F	Rate B/50; ISO 306

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