

SABIC Innovative Plastics GELOY XTPMFR10 ASA+PC (Asia Pacific)

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

Material Notes:

Improved ASA/PC blend for high flow, 1.0mm V0 applications. Improved UV performance aesthetically and physically compared to alternatives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-GELOY-XTPMFR10-ASAPC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Viscosity	105000 cP	105000 cP	Melt Viscosity, 260°C, 1500 sec-1; ISO 11443
Melt Flow	29 g/10 min @Load 2.16 kg, Temperature 260 °C	29 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238
Melt Index of Compound	30 g/10 min @Load 2.16 kg, Temperature 260 °C	30 g/10 min @Load 4.76 lb, Temperature 500 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
	47.0 MPa	6820 psi	50 mm/min; ISO 527
Tensile Strength, Yield	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D638
	66.0 MPa	9570 psi	50 mm/min; ISO 527
Elongation at Break	21 %	21 %	50 mm/min; ISO 527
	43.5 %	43.5 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	2.68 GPa	389 ksi	1 mm/min; ISO 527
	2.70 GPa	392 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	97.0 MPa	14100 psi	1.3 mm/min, 50 mm span; ASTM D790
	97.0 MPa	14100 psi	2 mm/min; ISO 178
	2.55 GPa	370 ksi	1.3 mm/min, 50 mm span; ASTM

Flexural Modulus Mechanical Properties	Metric	English	D790 Comments
	2.72 GPa	395 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.30 J/cm	6.18 ft-lb/in	ASTM D256
	0.720 J/cm	1.35 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Notched (ISO)	13.0 kJ/m²	6.19 ft-lb/in²	80*10*4; ISO 180/1A
	12.0 kJ/m²	5.71 ft-lb/in²	80*10*4; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Charpy Impact, Notched	1.30 J/cm²	6.19 ft-lb/in²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	50.0 J	36.9 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	85.0 J	62.7 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	62.0 µm/m-°C	34.4 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	63.0 µm/m-°C	35.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	62.0 µm/m-°C	34.4 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	63.0 µm/m-°C	35.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 °C	176 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	90.0 °C	194 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	Metric	English	Comments
	97.0 °C	207 °F	Rate B/50; ASTM D1525
	98.0 °C	208 °F	Rate B/120; ISO 306
Flammability, UL94	V-1	V-1	UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	UL 94
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	5VB	5VB	UL 94
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Glow Wire Test	775 °C	1430 °F	IEC 60695-2-13
	825 °C	1520 °F	IEC 60695-2-13
	875 °C	1610 °F	IEC 60695-2-13
	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	

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