

SABIC Innovative Plastics Geloy FXTW30PE ASA

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

Pearlescent GELOY ASA resin with copper-look for capstock extrusion. Outstanding weatherability. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Geloy-FXTW30PE-ASA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D 792
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.00 - 0.0010 cm/cm @Thickness 3.20 mm	0.00 - 0.0010 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	0.60 g/10 min @Load 3.80 kg, Temperature 200 °C	0.60 g/10 min @Load 8.38 lb, Temperature 392 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	Type I, 5 mm/min; ASTM D 638
	48.0 MPa	6960 psi	5 mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D 638
	50.0 MPa	7250 psi	5 mm/min; ISO 527
Elongation at Break	14 %	14 %	Type I, 5 mm/min; ASTM D 638
	29 %	29 %	5 mm/min; ISO 527
Elongation at Yield	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D 638
	3.6 %	3.6 %	5 mm/min; ISO 527
Tensile Modulus	2.67 GPa	387 ksi	5 mm/min; ASTM D 638
	2.75 GPa	399 ksi	1 mm/min; ISO 527
Flexural Yield Strength	76.0 MPa	11000 psi	2 mm/min; ISO 178
	77.0 MPa	11200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.75 GPa	399 ksi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric ^{SI}	English	Comments ^{ISO 178}
Izod Impact, Notched	0.340 J/cm	0.637 ft-lb/in	ASTM D 256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.670 J/cm	1.26 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	4.00 J	2.95 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.4 µm/m-°C	53.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	108 µm/m-°C	60.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C	172 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	76.0 °C	169 °F	
Vicat Softening Point	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
	86.0 °C	187 °F	
	89.0 °C	192 °F	Rate B/50; ASTM D 1525

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