

SABIC Innovative Plastics GELOY FXW749SK ASA

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Sparkle VisualFx ASA Resin - Weatherable

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-GELOY-FXW749SK-ASA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.80 %	0.80 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	9.2 g/10 min @Load 10.0 kg, Temperature 220 °C	9.2 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238
Melt Index of Compound	8.0 g/10 min @Load 10.0 kg, Temperature 220 °C	8.0 g/10 min @Load 22.0 lb, Temperature 428 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	50 mm/min; ISO 527
	45.0 MPa	6530 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	52.0 MPa	7540 psi	50 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	8.5 %	8.5 %	Type I, 50 mm/min; ASTM D638
	14 %	14 %	50 mm/min; ISO 527
Elongation at Yield	2.7 %	2.7 %	50 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.87 GPa	416 ksi	5 mm/min; ASTM D638
	3.06 GPa	444 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	85.0 MPa	12300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.79 GPa	405 ksi	2 mm/min; ISO 178
	2.93 GPa	425 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
	0.210 J/cm	0.393 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	93.0 µm/m-°C	51.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	102 µm/m-°C	56.7 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	104 µm/m-°C	57.8 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)	82.0 °C	180 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	81.0 °C	178 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	95.0 °C	203 °F	Rate B/50; ASTM D1525

Thermal Properties	97.0 °C Metric	207 °F English	Rate B/50; ISO 306 Comments
	99.0 °C	210 °F	Rate B/120; ISO 306

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