

SABIC Innovative Plastics GELOY FXW710SK ASA

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

General purpose injection molding ASA with Visual Fx sparkle effect.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-GELOY-FXW710SK-ASA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.55 %	0.55 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	7.0 g/10 min @Load 10.0 kg, Temperature 220 °C	7.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238
Melt Index of Compound	7.0 g/10 min @Load 10.0 kg, Temperature 220 °C	7.0 g/10 min @Load 22.0 lb, Temperature 428 °F	MVR [cm ³ /10 min]; ISO 1133
	8.0 g/10 min @Load 5.00 kg, Temperature 260 °C	8.0 g/10 min @Load 11.0 lb, Temperature 500 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ISO 2039-2
Tensile Strength at Break	30.0 MPa	4350 psi	Type I, 50 mm/min; ASTM D638
	30.0 MPa	4350 psi	50 mm/min; ISO 527
Tensile Strength, Yield	38.0 MPa	5510 psi	Type I, 50 mm/min; ASTM D638
	38.0 MPa	5510 psi	50 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Elongation at Yield	2.5 %	2.5 %	Type I, 50 mm/min; ASTM D638
	2.5 %	2.5 %	50 mm/min; ISO 527
Tensile Modulus	1.79 GPa	260 ksi	5 mm/min; ASTM D638
	1.90 GPa	276 ksi	1 mm/min; ISO 527
Flexural Yield Strength	50.0 MPa	7250 psi	2 mm/min; ISO 178
	55.0 MPa	7980 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.79 GPa	260 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.90 GPa	276 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.34 J/cm	2.51 ft-lb/in	ASTM D256
	0.560 J/cm @Temperature -30.0 °C	1.05 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
	5.00 kJ/m ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.400 J/cm ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	17.0 J @Temperature 23.0 °C	12.5 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	86.4 μm/m-°C	48.0 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	90.0 μm/m-°C	50.0 μin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	91.8 μm/m-°C @Temperature -40.0 - 40.0 °C	51.0 μin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831

Thermal Properties	Metric /m-°C	English /in-°F	Comments
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	77.0 °C	171 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	86.0 °C	187 °F	Rate B/50; ISO 306
	91.0 °C	196 °F	Rate B/120; ISO 306
	99.0 °C	210 °F	Rate B/50; ASTM D1525

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

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