

SABIC Innovative Plastics Geloy FXW710SK ASA/SAN (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ASA Polymer , SAN Polymer

Material Notes:

GELLOY FXW710SK is an ASA/SAN injection moulding grade. It is suitable for those applications that require sparkle colour effects. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Geloy-FXW710SK-ASASAN-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.55 % @Temperature 23.0 °C	0.55 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	on tensile bar; 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	[cm ³ /10 min] Melt Volume Rate; 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	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ISO 2039-2
Hardness, H358/30	70.0 MPa	10200 psi	ISO 2039-1
Tensile Strength at Break	30.0 MPa	4350 psi	50 mm/min; ISO 527
Tensile Strength, Yield	38.0 MPa	5510 psi	50 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	50 mm/min; ISO 527
Elongation at Yield	2.5 %	2.5 %	50 mm/min; ISO 527
Tensile Modulus	1.90 GPa	276 ksi	1 mm/min; ISO 527
Flexural Yield Strength	50.0 MPa	7250 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 ksi	2 mm/min; ISO 178
	5.00 kJ/m ²	2.38 ft-lb/in ²	

Izod Impact, Notched (ISO)		80*10*4; ISO 180/1A	
Mechanical Properties	Metric	English	Comments
	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	155	155	CS-17; SABIC Method
	@Load 1.00 kg	@Load 2.20 lb	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	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	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Thermal Conductivity	0.210 W/m-K	1.46 BTU-in/hr-ft ² -°F	ISO 8302
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
Vicat Softening Point	86.0 °C	187 °F	Rate B/50; ISO 306
	91.0 °C	196 °F	Rate B/120; ISO 306
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	HB	HB	2nd value; UL 94 by SABIC-IP
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	19 %	19 %	LOI; ISO 4589
Glow Wire Test	750 °C	1380 °F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
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Electrical Properties Dielectric Constant	^{3.2} Metric	^{3.2} English	Comments IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	5.2	5.2	
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	16.0 kV/mm	406 kV/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.026	0.026	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	0.15	0.15	
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250

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

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