

SABIC Innovative Plastics Gelay FXTW26SK ASA

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

Material Notes:

Next generation Gelay XTW ASA for high heat exterior applications. Outstanding weatherability and toughness. Metallic sparkle VisualFx. 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-Gelay-FXTW26SK-ASA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D 792
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 % @Temperature 23.0 °C	0.50 % @Temperature 73.4 °F	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
Linear Mold Shrinkage, Transverse	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	12 g/10 min @Load 10.0 kg, Temperature 220 °C	12 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D 1238
	13 g/10 min @Load 5.00 kg, Temperature 260 °C	13 g/10 min @Load 11.0 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.0 MPa	5220 psi	50 mm/min; ISO 527
	36.0 MPa	5220 psi	Type I, 5 mm/min; ASTM D 638
	37.0 MPa	5370 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D 638
	45.0 MPa	6530 psi	50 mm/min; ISO 527
	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	17 %	17 %	Type I, 50 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
	24 %	24 %	50 mm/min; ISO 527
Elongation at Yield	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D 638
	2.7 %	2.7 %	Type I, 50 mm/min; ASTM D 638
	2.8 %	2.8 %	50 mm/min; ISO 527
Tensile Modulus	2.45 GPa	355 ksi	1 mm/min; ISO 527
	2.46 GPa	357 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	64.0 MPa	9280 psi	2 mm/min; ISO 178
	74.0 MPa	10700 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
	2.57 GPa	373 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.230 J/cm	0.431 ft-lb/in	ASTM D 256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.40 J/cm	2.62 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	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	
	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	18.0 J	13.3 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	83.0 µm/m-°C	46.1 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	84.0 µm/m-°C	46.7 µin/in-°F	ASTM E 831
	@Temperature -40.0 -	@Temperature -40.0 -	

Thermal Properties	40.0 °C Metric	104 °F English	Comments
CTE, linear, Transverse to Flow	94.0 µm/m-°C	52.2 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	94.0 µm/m-°C	52.2 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)	97.0 °C	207 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	84.0 °C	183 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	84.0 °C	183 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	95.0 °C	203 °F	Rate B/50; ISO 306
	98.0 °C	208 °F	Rate B/50; ASTM D 1525
	99.0 °C	210 °F	Rate B/120; ISO 306

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