

SABIC Innovative Plastics Geloy XTWE265 ASA

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

Material Notes:

Highly weatherable Geloy ASA profile extrusion grade for processes with simple or no calibration hardware. 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-XTWE265-ASA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D 792
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	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	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	5.0 g/10 min @Load 5.00 kg, Temperature 220 °C	5.0 g/10 min @Load 11.0 lb, Temperature 428 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	5.2 g/10 min @Load 10.0 kg, Temperature 220 °C	5.2 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	29.0 MPa	4210 psi	Type I, 50 mm/min; ASTM D 638
	29.0 MPa	4210 psi	50 mm/min; ISO 527
Tensile Strength, Yield	37.0 MPa	5370 psi	50 mm/min; ISO 527
	38.0 MPa	5510 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	37 %	37 %	Type I, 50 mm/min; ASTM D 638
	40 %	40 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	1.87 GPa	271 ksi	5 mm/min; ASTM D 638

Mechanical Properties	Metric 1.90 GPa	English 276 ksi	Comments 1 mm/min; ISO 527
Flexural Yield Strength	53.0 MPa	7690 psi	2 mm/min; ISO 178
	56.0 MPa	8120 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.88 GPa	273 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	1.90 GPa	276 ksi	2 mm/min; ISO 178
Izod Impact, Notched	2.60 J/cm @Temperature 23.0 °C	4.87 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	26.0 kJ/m ² @Temperature 23.0 °C	12.4 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.80 J/cm ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	35.0 J @Temperature 23.0 °C	25.8 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C @Temperature -40.0 - 40.0 °C	66.7 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	120 µm/m-°C @Temperature -40.0 - 40.0 °C	66.7 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	130 µm/m-°C @Temperature -40.0 - 40.0 °C	72.2 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	130 µm/m-°C @Temperature -40.0 - 40.0 °C	72.2 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	84.0 °C @Thickness 3.20 mm	183 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	82.0 °C	180 °F	Rate B/50; ASTM D 1525

Thermal Properties	85.0 °C Metric	185 °F English	Rate B/50; ISO 306 Comments
	87.0 °C	189 °F	Rate B/120; ISO 306

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