

SABIC Innovative Plastics Geloy XTWE280 ASA

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

Material Notes:

Weatherble ASA profile extrusion grade 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-XTWE280-ASA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D 792
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.26 %	0.26 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	1.0 % @Temperature 23.0 °C	1.0 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0052 - 0.0053 cm/cm @Thickness 3.20 mm	0.0052 - 0.0053 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	11 g/10 min @Load 10.0 kg, Temperature 220 °C	11 g/10 min @Load 22.0 lb, Temperature 428 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	12 g/10 min @Load 3.80 kg, Temperature 200 °C	12 g/10 min @Load 8.38 lb, Temperature 392 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.0 MPa	4790 psi	Type I, 5 mm/min; ASTM D 638
	37.0 MPa	5370 psi	5 mm/min; ISO 527
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D 638
	51.0 MPa	7400 psi	5 mm/min; ISO 527
Elongation at Break	13 %	13 %	Type I, 5 mm/min; ASTM D 638
	31 %	31 %	5 mm/min; ISO 527
Elongation at Yield	2.8 %	2.8 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.70 GPa	392 ksi	5 mm/min; ASTM D 638

Mechanical Properties	2.85 GPa Metric	413 ksi English	1 mm/min; ISO 527 Comments
Flexural Yield Strength	74.0 MPa	10700 psi	2 mm/min; ISO 178
	78.0 MPa	11300 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.50 GPa	363 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.50 GPa	363 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.420 J/cm @Temperature -30.0 °C	0.787 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	0.750 J/cm @Temperature 23.0 °C	1.41 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	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
	9.00 kJ/m ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.00 J/cm ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	30.0 J @Temperature 23.0 °C	22.1 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C @Temperature -40.0 - 40.0 °C	50.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	90.0 µm/m-°C @Temperature -40.0 - 40.0 °C	50.0 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	100 µm/m-°C @Temperature -40.0 - 40.0 °C	55.6 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	100 µm/m-°C @Temperature -40.0 - 40.0 °C	55.6 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	unannealed; ASTM D 648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	86.0 °C	187 °F	Rate B/50; ASTM D 1525
	86.0 °C	187 °F	Rate B/50; ISO 306
	88.0 °C	190 °F	Rate B/120; ISO 306

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