

SABIC Innovative Plastics Geloy XTWE480 ASA (Asia Pacific)

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

Material Notes:

Anti-scratch Geloy grade with excellent weatherability, high flow, and good surface quality. XTWE480 is available in various colours. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Geloy-XTWE480-ASA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D 792
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm @Thickness 3.20 mm	0.0030 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	38 g/10 min @Load 10.0 kg, Temperature 220 °C	38 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.0 MPa	5220 psi	Type I, 50 mm/min; ASTM D 638
	38.0 MPa	5510 psi	50 mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D 638
	50.0 MPa	7250 psi	50 mm/min; ISO 527
Elongation at Break	21 %	21 %	Type I, 50 mm/min; ASTM D 638
	25 %	25 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	Type I, 50 mm/min; ASTM D 638
	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
	2.47 GPa	358 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	70.0 MPa	10200 psi	1.3 mm/min, 50 mm span; ASTM D 790
	70.0 MPa	10200 psi	2 mm/min; ISO 178
Flexural Modulus	2.06 GPa	299 ksi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.270 J/cm @Temperature -30.0 °C	0.506 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	0.490 J/cm @Temperature 23.0 °C	0.918 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	3.00 kJ/m² @Temperature -30.0 °C	1.43 ft-lb/in² @Temperature -22.0 °F	80*10*4; ISO 180/1A
	5.00 kJ/m² @Temperature 23.0 °C	2.38 ft-lb/in² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Impact Test	6.00 J @Temperature 23.0 °C	4.43 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	81.0 µm/m-°C @Temperature -40.0 - 40.0 °C	45.0 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	88.0 µm/m-°C @Temperature -40.0 - 40.0 °C	48.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C	163 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	73.0 °C @Thickness 6.40 mm	163 °F @Thickness 0.252 in	unannealed; ASTM D 648
Vicat Softening Point	78.0 °C	172 °F	Rate B/50; ASTM D 1525
	79.0 °C	174 °F	Rate B/50; ISO 306

Descriptive Properties	Value	Comments
Pencil Hardness test, 1kgf	F	ASTM D 3363

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