

SABIC Innovative Plastics Geloy XTWE270M ASA+SAN (Asia Pacific)

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Excellent weatherability, good flow/aesthetics and good impact. Profile co-extrusion grade over ABS, PVC or other compatible polymers.

XTWE270M 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-XTWE270M-ASASAN-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D 792
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	0.80 % @Temperature 23.0 °C	0.80 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm @Thickness 3.20 mm	0.0030 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	2.0 g/10 min @Load 5.00 kg, Temperature 220 °C	2.0 g/10 min @Load 11.0 lb, Temperature 428 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	9.7 g/10 min @Load 10.0 kg, Temperature 220 °C	9.7 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	26.0 MPa	3770 psi	50 mm/min; ISO 527
	32.0 MPa	4640 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	36.0 MPa	5220 psi	Type I, 50 mm/min; ASTM D 638
	36.0 MPa	5220 psi	50 mm/min; ISO 527
Elongation at Break	28 %	28 %	50 mm/min; ISO 527
	38 %	38 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	3.4 %	3.4 %	Type I, 50 mm/min; ASTM D 638
	3.4 %	3.4 %	50 mm/min; ISO 527
Tensile Modulus	1.79 GPa	260 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 1.91 GPa	English 277 ksi	Comments 5 mm/min; ASTM D 638
Flexural Yield Strength	56.0 MPa	8120 psi	1.3 mm/min, 50 mm span; ASTM D 790
	56.0 MPa	8120 psi	2 mm/min; ISO 178
Flexural Modulus	1.83 GPa	265 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	1.87 GPa	271 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.700 J/cm @Temperature -30.0 °C	1.31 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	1.95 J/cm @Temperature 23.0 °C	3.65 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	7.00 kJ/m² @Temperature -30.0 °C	3.33 ft-lb/in² @Temperature -22.0 °F	80*10*4; ISO 180/1A
	13.0 kJ/m² @Temperature 23.0 °C	6.19 ft-lb/in² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.20 J/cm² @Temperature 23.0 °C	5.71 ft-lb/in² @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	28.0 J @Temperature 23.0 °C	20.7 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	92.0 µm/m-°C @Temperature -40.0 - 40.0 °C	51.1 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
CTE, linear, Transverse to Flow	109 µm/m-°C @Temperature -40.0 - 40.0 °C	60.6 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	116 µm/m-°C @Temperature -40.0 - 40.0 °C	64.4 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	71.0 °C	160 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af

Thermal Properties	Metric	English	Comments
	82.0 °C	180 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	82.0 °C	180 °F	Rate B/50; ISO 306
	85.0 °C	185 °F	Rate B/120; ISO 306
	85.0 °C	185 °F	Rate B/50; ASTM D 1525

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China