

SABIC Innovative Plastics GELOY CR3020 ASA

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Low-gloss ASA for profile and capstock applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-GELOY-CR3020-ASA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0055 - 0.0063 cm/cm	0.0055 - 0.0063 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	6.0 g/10 min	6.0 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa	4350 psi	Type I, 50 mm/min; ASTM D638
	31.0 MPa	4500 psi	50 mm/min; ISO 527
Tensile Strength, Yield	39.0 MPa	5660 psi	Type I, 50 mm/min; ASTM D638
	39.0 MPa	5660 psi	50 mm/min; ISO 527
Elongation at Break	23 %	23 %	50 mm/min; ISO 527
	38 %	38 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.4 %	3.4 %	50 mm/min; ISO 527
	3.5 %	3.5 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.80 GPa	261 ksi	1 mm/min; ISO 527
	1.84 GPa	267 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	56.0 MPa	8120 psi	2 mm/min; ISO 178
	57.0 MPa	8270 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
	1.86 GPa	270 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.0800 J/cm	0.150 ft-lb/in	ASTM D256
	0.0100 J/cm	0.0187 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	25.0 kJ/m²	11.9 ft-lb/in²	80*10*4; ISO 180/1A
	3.00 kJ/m²	1.43 ft-lb/in²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C	77.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	200 µm/m-°C	111 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	74.0 °C	165 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	100 °C	212 °F	Rate B/50; ASTM D1525
	100 °C	212 °F	Rate B/50; ISO 306

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