

SABIC Innovative Plastics GELOY HRA170D ASA+PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC) , Polycarbonate/ASA Alloy, Unreinforced

Material Notes:

GELOY HRA170D resin is a PC-ASA blend with permanent antistatic behavior. It is typically used in applications that require antidust properties and high impact retention. Gelay HRA170D resin is typically used in various outdoor and indoor applications requiring superior heat aging properties and colour stability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-GELOY-HRA170D-ASAPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Melt Flow	8.0 g/10 min	8.0 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	8.5 g/10 min	8.5 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	30 g/10 min	30 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	
Melt Index of Compound	8.0 g/10 min	8.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	29 g/10 min	29 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	57	57	ISO 2039-2
Hardness, H358/30	63.0 MPa	9140 psi	ISO 2039-1
Hardness, Shore D	77	77	ISO 868
Tensile Strength at Break	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D638
	58.0 MPa	8410 psi	50 mm/min; ISO 527

Mechanical Properties	59.0 MPa Metric	8560 psi English	Type I, 50 mm/min; ASTM D638 Comments
	65.0 MPa	9430 psi	5 mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
	51.0 MPa	7400 psi	5 mm/min; ISO 527
	54.0 MPa	7830 psi	50 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	130 %	130 %	50 mm/min; ISO 527
	140 %	140 %	Type I, 50 mm/min; ASTM D638
	160 %	160 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
	5.0 %	5.0 %	50 mm/min; ISO 527
	130 %	130 %	5 mm/min; ISO 527
Tensile Modulus	2.15 GPa	312 ksi	1 mm/min; ISO 527
	2.16 GPa	313 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min; ISO 178
Izod Impact, Notched	7.50 J/cm	14.1 ft-lb/in	ASTM D256
	1.40 J/cm	2.62 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	80*10*4; ISO 180/1A
	125 kJ/m ²	59.5 ft-lb/in ²	80*10*3; ISO 180/1A
	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*3; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	12.8 J/cm ²	60.9 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.70 J/cm ²	8.09 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	179/1eA Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	127 °C	261 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	104 °C	219 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	106 °C @Thickness 3.20 mm	223 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	121 °C	250 °F	Rate B/50; ISO 306
	122 °C	252 °F	Rate B/120; ISO 306
	137 °C	279 °F	Rate A/50; ISO 306
	138 °C	280 °F	Rate A/120; ISO 306
Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ROA; IEC 60093

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