

SABIC Innovative Plastics Cycloloy® LG9020 PC+ABS

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

Material Notes:

Low Gloss Cycloloy. Available only in natural, to be custom color concentrated and UV stabilized at the molding press.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloloy-LG9020-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Moisture Absorption	0.120 %	0.120 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.39 %	0.39 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	18 g/10 min @Load 5.00 kg, Temperature 260 °C	18 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238
Melt Index of Compound	20 g/10 min @Load 5.00 kg, Temperature 265 °C	20 g/10 min @Load 11.0 lb, Temperature 509 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	50 mm/min; ISO 527
	53.0 MPa	7690 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	53.0 MPa	7690 psi	50 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D638
	120 %	120 %	50 mm/min; ISO 527
Elongation at Yield	4.3 %	4.3 %	50 mm/min; ISO 527
	4.6 %	4.6 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.28 GPa	331 ksi	5 mm/min; ASTM D638
	2.39 GPa	347 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	85.0 MPa	12300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
	2.28 GPa	331 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.45 J/cm	12.1 ft-lb/in	ASTM D256
	3.85 J/cm	7.21 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	54.0 kJ/m ²	25.7 ft-lb/in ²	80*10*4; ISO 180/1A
	32.0 kJ/m ²	15.2 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	6.30 J/cm ²	30.0 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	57.0 J	42.0 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.0 μm/m-°C	36.7 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	66.0 μm/m-°C	36.7 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	80.0 μm/m-°C	44.4 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	80.0 μm/m-°C	44.4 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	126 °C	259 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	101 °C	214 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	103 °C	217 °F	
			unannealed; ASTM D648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Vicat Softening Point	123 °C	253 °F	Rate B/50; ASTM D1525
	123 °C	253 °F	Rate B/50; ISO 306
	125 °C	257 °F	Rate B/120; ISO 306

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