

SABIC Innovative Plastics Cycology® LG8002 PC+ABS

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

Material Notes:

Automotive. Low gloss, high impact and ductility at 73F and -22F. UV-stable colors. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycology-LG8002-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D 792
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	6.5 g/10 min @Load 5.00 kg, Temperature 260 °C	6.5 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	85.0 MPa	12300 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.27 GPa	329 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	5.87 J/cm @Temperature -30.0 °C	11.0 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	6.40 J/cm @Temperature 23.0 °C	12.0 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Impact Test	40.0 J @Temperature -30.0 °C	29.5 ft-lb @Temperature -22.0 °F	Instrumented Impact Total Energy; ASTM D 3763
	47.0 J @Temperature 23.0 °C	34.7 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
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Thermal Properties CTE, linear, Parallel to Flow	90.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	50.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments ASTM E 831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² - $^\circ\text{F}$	ASTM C 177
Deflection Temperature at 0.46 MPa (66 psi)	121 $^\circ\text{C}$ @Thickness 3.20 mm	250 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	104 $^\circ\text{C}$ @Thickness 3.20 mm	219 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D 648

Optical Properties	Metric	English	Comments
Gloss	30 %	30 %	untextured, 60 degrees; ASTM D 523

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