

SABIC Innovative Plastics Cycloy® LG9000 PC+ABS

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

Material Notes:

PC+ABS blend, low gloss and UV-stable, suitable for automotive interior applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-LG9000-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	0.40 %	0.40 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	17 g/10 min	17 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	75 %	75 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	ASTM D256
	3.20 J/cm	5.99 ft-lb/in	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ASTM D256
Dart Drop, Total Energy	33.0 J	24.3 ft-lb	ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	40.0 J	29.5 ft-lb	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D3763 Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C @Temperature -20.0 - 150 °C	40.0 µin/in-°F @Temperature -4.00 - 302 °F	ASTM E 831
CTE, linear, Transverse to Flow	72.0 µm/m-°C @Temperature -20.0 - 150 °C	40.0 µin/in-°F @Temperature -4.00 - 302 °F	ASTM E 831
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	123 °C @Thickness 3.20 mm	253 °F @Thickness 0.126 in	unannealed; ASTM D648
	129 °C @Thickness 6.40 mm	264 °F @Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	107 °C @Thickness 3.20 mm	225 °F @Thickness 0.126 in	unannealed; ASTM D648
	110 °C @Thickness 6.40 mm	230 °F @Thickness 0.252 in	
Vicat Softening Point	129 °C	264 °F	Rate B/50; ASTM D1525
UL RTI, Electrical	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical with Impact	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical without Impact	60.0 °C	140 °F	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.49 mm	@Thickness 0.0587 in	

Optical Properties	Metric	English	Comments
Gloss	30 %	30 %	untextured, 60 degrees; ASTM D523

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	250 - 400 V	250 - 400 V	UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A

High Amp Arc Ignition, HAI
Electrical Properties

≥ 120 arcs
Metric

≥ 120 arcs
English

III 746A
Comments

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