

SABIC Innovative Plastics Cycloy® MC8002 PC+ABS

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

Material Notes:

AUTOMOTIVE. Low viscosity, high impact and ductility.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-MC8002-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 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	
Melt Flow	9.0 g/10 min	9.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	150 %	150 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.40 J/cm	12.0 ft-lb/in	ASTM D256
	5.34 J/cm	10.0 ft-lb/in	ASTM D256
Dart Drop, Total Energy	54.0 J	39.8 ft-lb	ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	61.0 J	45.0 ft-lb	ASTM D3763

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature -40.0 - 40.0 °C	40.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature -40.0 - 104 °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
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	unannealed; ASTM D648

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