

SABIC Innovative Plastics Cycloy® MC9000 PC+ABS (Asia Pacific)

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

Material Notes:

AUTOMOTIVE. PC+ABS; high heat resistant. Ductile at room temperature. Excellent flow. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-MC9000-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 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	22 g/10 min @Load 5.00 kg, Temperature 260 °C	22 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	75 %	75 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.20 GPa	319 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.37 GPa	344 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.67 J/cm @Temperature -30.0 °C	5.00 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	58.0 J @Temperature -30.0 °C	42.8 ft-lb @Temperature -22.0 °F	Instrumented Impact Total Energy; ASTM D 3763
	61.0 J @Temperature 23.0 °C	45.0 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

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 $^\circ\text{C}$	40.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	126 $^\circ\text{C}$ @Thickness 3.20 mm	259 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	110 $^\circ\text{C}$ @Thickness 3.20 mm	230 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D 648

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