

SABIC Innovative Plastics Cycloy® CY2000 PC+ABS

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

Material Notes:

Cycloy resin CY2000 is a flame retardant (FR) PC/ABS blend free from halogen containing FR agents. It was designed to meet CA133 application requirements. 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-Cycloy-CY2000-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0044 - 0.0054 cm/cm @Thickness 3.20 mm	0.0044 - 0.0054 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	21 g/10 min @Load 2.16 kg, Temperature 260 °C	21 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	63.0 MPa	9140 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	99 %	99 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.86 GPa	415 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	99.0 MPa	14400 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.77 GPa	402 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.890 J/cm @Temperature -30.0 °C	1.67 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	4.47 J/cm @Temperature 23.0 °C	8.37 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Impact Test	63.0 J @Temperature 23.0 °C	46.5 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
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Thermal Properties	61.7 $\mu\text{m}/\text{m}\cdot\text{C}$ Metric	34.3 $\mu\text{in}/\text{in}\cdot\text{F}$ English	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	70.9 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature -40.0 - 40.0 °C	39.4 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C @Thickness 3.20 mm	172 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	92.0 °C	198 °F	Rate B/50; ASTM D 1525

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