

SABIC Innovative Plastics Cycloy® C1200HF PC+ABS (Asia Pacific)

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

Material Notes:

PC+ABS, excellent flow/impact/high heat resistance. Low temperature ductility. For automotive, appliance and electrical components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-C1200HF-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
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	19 g/10 min @Load 5.00 kg, Temperature 260 °C	19 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	100 %	100 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.27 GPa	329 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	88.0 MPa	12800 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	5.87 J/cm	11.0 ft-lb/in	ASTM D256
	4.80 J/cm @Temperature -30.0 °C	8.99 ft-lb/in @Temperature -22.0 °F	ASTM D256
Dart Drop, Total Energy	54.0 J @Temperature 23.0 °C	39.8 ft-lb @Temperature 73.4 °F	ASTM D3763
	54.0 J @Temperature -30.0 °C	39.8 ft-lb @Temperature -22.0 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
	72.0 µm/m-°C	40.0 µin/in-°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @ Temperature -40.0 - 40.0 °C	English @ Temperature -40.0 - 104 °F	ASTM E 831 Comments
Deflection Temperature at 0.46 MPa (66 psi)	129 °C @Thickness 3.20 mm	264 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	112 °C @Thickness 3.20 mm	234 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	130 °C	266 °F	Rate B/50; ISO 306
UL RTI, Electrical	105 °C	221 °F	UL 746B
UL RTI, Mechanical with Impact	80.0 °C	176 °F	UL 746B
UL RTI, Mechanical without Impact	105 °C	221 °F	UL 746B
Flammability, UL94	HB @Thickness 1.19 mm	HB @Thickness 0.0469 in	UL 94

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 - 400 V	250 - 400 V	UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL 746A
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL 746A

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