

SABIC Innovative Plastics Cycloy® FXC810MA PC+ABS

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

Material Notes:

FXC810MA is the grade code for the Marble effect in PC/ABS. Marble is part of the VisualFX portfolio, and it is offered in a range of colors simulating the Marble effect. High heat/good flow characteristics. Appliances/Automotive/Telecommunication & Consumer Goods are some of the markets typically using this effect. Color Package may affect performance, Application testing always recommended. 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-FXC810MA-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 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 at Break	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	51.0 MPa	7400 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	50 %	50 %	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	2.48 GPa	360 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	75.0 MPa	10900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.41 GPa	350 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	4.27 J/cm @Temperature 23.0 °C	8.00 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Impact Test	40.0 J @Temperature 23.0 °C	29.5 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 °C	104 °F	
CTE, linear, Transverse to Flow	72.0 µm/m-°C @Temperature -40.0 - 40.0 °C	40.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	131 °C @Thickness 3.20 mm	268 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	112 °C @Thickness 3.20 mm	234 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	143 °C	289 °F	Rate B/50; ASTM D 1525

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