

SABIC Innovative Plastics Cycloy® MC5220 PC+ABS (Asia Pacific)

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-MC5220-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	107 MPa	15500 psi	SABIC - Japan Method
Elongation at Break	7.0 %	7.0 %	SABIC - Japan Method
Flexural Strength	113 MPa	16400 psi	ASTM D790
Flexural Modulus	5.88 GPa	853 ksi	ASTM D790
Izod Impact, Notched	0.780 J/cm	1.46 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 - 50.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -30.0 - 30.0 °C	16.7 - 27.8 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -22.0 - 86.0 °F	TMA
Deflection Temperature at 0.46 MPa (66 psi)	100 °C @Thickness 3.20 mm	212 °F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94
	5VA @Thickness 2.50 mm	5VA @Thickness 0.0984 in	UL 94

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257

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