

SABIC Innovative Plastics Cycology® MC5215 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-Cycology-MC5215-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Water Absorption at Saturation	0.15 %	0.15 %	ISO 62
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 260 °C	20 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238
Melt Index of Compound	17 g/10 min @Load 2.16 kg, Temperature 260 °C	17 g/10 min @Load 4.76 lb, Temperature 500 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	86.0 MPa	12500 psi	Type I, 5 mm/min; ASTM D638
	86.0 MPa	12500 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.77 GPa	837 ksi	5 mm/min; ASTM D638
	5.91 GPa	857 ksi	1 mm/min; ISO 527
Flexural Yield Strength	134 MPa	19400 psi	2 mm/min; ISO 178
	135 MPa	19600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.97 GPa	721 ksi	2 mm/min; ISO 178
	5.15 GPa	747 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Izod Impact, Unnotched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	80*10*3; ISO 180/1U
	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	100 °C	212 °F	Rate B/120; ISO 306
Flammability, UL94	V-1	V-1	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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