

SABIC Innovative Plastics Cycology® CY5220 PC+ABS (Asia Pacific)

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

Material Notes:

Non-chlorinated & non-brominated FR PC/ABS featuring good flow and impact properties. Designed for various thin wall applications. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycology-CY5220-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 260 °C	18 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	100 %	100 %	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	2.90 GPa	421 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.80 GPa	406 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	5.50 J/cm @Temperature 23.0 °C	10.3 ft-lb/in @Temperature 73.4 °F	ASTM D 256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C @Thickness 3.20 mm	185 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	95.0 °C	203 °F	Rate B/50; ISO 306
Flammability, UL94	V-0	V-0	UL 94

Thermal Properties	@Thickness 1.19 mm Metric	@Thickness 0.0469 in English	Comments
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