

SABIC Innovative Plastics Cycology® RCY6113 PC+ABS (Asia Pacific)

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

Material Notes:

Cycology® RCY6113 resin is an injection moldable PC/ABS blend with non-brominated and non-chlorinated flame retardant. It contains 30% post consumer recycle content with a UL-94 5VB rating @ 2.0mm and V0 rating @ 1.5mm. Developed for wide variety of applications that require balanced flow and impact performance. Limited availability and restricted color only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycology-RCY6113-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Water Absorption	0.11 % @Time 86400 sec	0.11 % @Time 24.0 hour	ASTM D570
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
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	60 %	60 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.50 GPa	363 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	90.0 MPa	13100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	5.00 J/cm	9.37 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	55.0 kJ/m ²	26.2 ft-lb/in ²	80*10*3; ISO 180/1A
	50.0 J	36.9 ft-lb	

Dart Drop, Total Energy Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D3763 Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.0 µm/m-°C @Temperature -40.0 - 60.0 °C	39.4 µin/in-°F @Temperature -40.0 - 140 °F	ASTM E 831
CTE, linear, Transverse to Flow	76.0 µm/m-°C @Temperature -40.0 - 60.0 °C	42.2 µin/in-°F @Temperature -40.0 - 140 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C @Thickness 6.40 mm	194 °F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C @Thickness 3.20 mm	167 °F @Thickness 0.126 in	unannealed; ASTM D648
	82.0 °C @Thickness 6.40 mm	180 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	92.0 °C	198 °F	Rate B/50; ASTM D1525
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94
	5VB @Thickness 2.00 mm	5VB @Thickness 0.0787 in	UL 94

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