

SABIC Innovative Plastics Cycology® RCY6013 PC+ABS (Asia Pacific)

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

Material Notes:

Cycology® RCY6013 resin is an injection moldable high flow PC/ABS blend with non-brominated and non-chlorinated flame retardant. It contains 30% post consumer recycle content with a UL-94 V0 @ 1.5 mm. Developed for wide variety of applications that require high flow and moderate impact performance. Limited availability and restricted color only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycology-RCY6013-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
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
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	34 g/10 min @Load 2.16 kg, Temperature 260 °C	34 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 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	34 %	34 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.6 %	3.6 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.60 GPa	377 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	92.0 MPa	13300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	11.0 kJ/m²	5.23 ft-lb/in²	80*10*3; ISO 180/1A
	18.0 J	13.3 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	39.4 µin/in-°F	ASTM E 831
		@Temperature -40.0 - 60.0 °C	@Temperature -40.0 - 140 °F	
CTE, linear, Transverse to Flow		72.0 µm/m-°C	40.0 µin/in-°F	ASTM E 831
		@Temperature -40.0 - 60.0 °C	@Temperature -40.0 - 140 °F	
Deflection Temperature at 0.46 MPa (66 psi)		92.0 °C	198 °F	unannealed; ASTM D648
		@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)		76.0 °C	169 °F	unannealed; ASTM D648
		@Thickness 3.20 mm	@Thickness 0.126 in	
		82.0 °C	180 °F	unannealed; ASTM D648
		@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point		92.0 °C	198 °F	Rate B/50; ASTM D1525
Flammability, UL94		V-1	V-1	UL 94
		@Thickness 1.20 mm	@Thickness 0.0472 in	
		V-0	V-0	UL 94
		@Thickness 1.50 mm	@Thickness 0.0591 in	

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