

SABIC Innovative Plastics Cycloloy® RCM6123 PC+ABS (Asia Pacific)

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

Material Notes:

Cycloloy* RCM6123 resin is an injection moldable filled PC/ABS blend with non-brominated and non-chlorinated flame retardant. It contains 30% post consumer recycle content with a UL-94 V0 rating @ 1.2mm. Developed for thin wall applications that require high flow and high stiffness performance. Limited availability and restricted color only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloloy-RCM6123-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.0400 %	0.0400 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm @Thickness 3.20 mm	0.0030 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 260 °C	11 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	5 mm/min; ISO 527
	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
	55.0 MPa	7980 psi	5 mm/min; ISO 527
Elongation at Break	26 %	26 %	Type I, 5 mm/min; ASTM D638
	30 %	30 %	5 mm/min; ISO 527
Elongation at Yield	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
	3.8 %	3.8 %	5 mm/min; ISO 527
Tensile Modulus	4.40 GPa	638 ksi	5 mm/min; ASTM D638
	4.50 GPa	653 ksi	1 mm/min; ISO 527
Flexural Yield Strength	97.0 MPa	14100 psi	1.3 mm/min, 50 mm span; ASTM D790
	97.0 MPa	14100 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	4.30 GPa	624 ksi	1 mm/min, 50 mm span; ASTM D790
	4.40 GPa	638 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*3; ISO 180/1A
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	56.0 J @Temperature 23.0 °C	41.3 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 µm/m-°C	23.3 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	62.0 µm/m-°C	34.4 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	49.0 µm/m-°C	27.2 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	78.0 µm/m-°C	43.3 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	91.0 °C @Thickness 3.20 mm	196 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	82.0 °C @Thickness 3.20 mm	180 °F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.20 mm	V-0 @Thickness 0.0472 in	UL 94

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China