

## SABIC Innovative Plastics Cycloy® RCM6134 PC+ABS (Asia Pacific)

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

### Material Notes:

Cycloy\* RCM6134 resin is an injection moldable filled PC/ABS blend with non-brominated and non-chlorinated flame retardant. It contains 35% post consumer recycle content with a UL-94 V0 rating @ 1.0mm. 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-Cycloy-RCM6134-PCABS-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-RCM6134-PCABS-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
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	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	44.0 MPa	6380 psi	Type I, 5 mm/min; ASTM D638
	48.0 MPa	6960 psi	5 mm/min; ISO 527
Tensile Strength, Yield	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
	56.0 MPa	8120 psi	5 mm/min; ISO 527
Elongation at Break	70 %	70 %	Type I, 5 mm/min; ASTM D638
	75 %	75 %	5 mm/min; ISO 527
Elongation at Yield	3.4 %	3.4 %	5 mm/min; ISO 527
	3.5 %	3.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	5 mm/min; ASTM D638
	3.10 GPa	450 ksi	1 mm/min; ISO 527
Flexural Yield Strength	90.0 MPa	13100 psi	1.3 mm/min, 50 mm span; ASTM D790
	95.0 MPa	13800 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	3.10 GPa	450 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.00 J/cm	5.62 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	20.0 kJ/m <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	80*10*3; ISO 180/1A
Charpy Impact, Notched	1.10 J/cm <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	52.0 J @Temperature 23.0 °C	38.4 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C @Temperature 23.0 - 80.0 °C	38.9 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C @Temperature 23.0 - 80.0 °C	44.4 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C @Thickness 3.20 mm	190 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	80.0 °C @Thickness 3.20 mm	176 °F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-1 @Thickness 0.800 mm	V-1 @Thickness 0.0315 in	UL 94
	V-0 @Thickness 1.00 mm	V-0 @Thickness 0.0394 in	UL 94

## Contact Songhan Plastic Technology Co.,Ltd.

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