

SABIC Innovative Plastics Cycloy® C8080REC PC+ABS

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

Material Notes:

PC+ABS Recycle Resin with good flow, good temperature resistance and moderate impact

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-C8080REC-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm @Thickness 3.20 mm	0.0060 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm @Thickness 3.20 mm	0.0060 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	13 g/10 min @Load 1.20 kg, Temperature 300 °C	13 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	50 mm/min; ISO 527
	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
	56.0 MPa	8120 psi	50 mm/min; ISO 527
Elongation at Break	85 %	85 %	50 mm/min; ISO 527
	110 %	110 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.6 %	4.6 %	Type I, 50 mm/min; ASTM D638
	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.38 GPa	345 ksi	1 mm/min; ISO 527
	2.55 GPa	370 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	92.0 MPa	13300 psi	2 mm/min; ISO 178
	93.0 MPa	13500 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	2.48 GPa Metric	360 ksi English	2 mm/min; ISO 178 Comments
	2.49 GPa	361 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.94 J/cm	13.0 ft-lb/in	ASTM D256
	2.02 J/cm	3.78 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	51.0 kJ/m ²	24.3 ft-lb/in ²	80*10*4; ISO 180/1A
	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	5.40 J/cm ²	25.7 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.90 J/cm ²	9.04 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	50.0 J	36.9 ft-lb	ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	53.0 J	39.1 ft-lb	ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	56.0 J	41.3 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	129 °C	264 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	126 °C	259 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	113 °C	235 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	107 °C	225 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	127 °C	261 °F	Rate B/50; ASTM D1525

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