

SABIC Innovative Plastics Cycloy® XCY480 PC+ABS (Europe-Africa-Middle East)

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

Material Notes:

High flow This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-XCY480-PCABS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.14 %	0.14 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.47 % @Temperature 23.0 °C	0.47 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 260 °C	12 g/10 min @Load 4.76 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	38 g/10 min @Load 5.00 kg, Temperature 260 °C	38 g/10 min @Load 11.0 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	39 g/10 min @Load 5.00 kg, Temperature 260 °C	39 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	Type I, 50 mm/min; ASTM D 638
	43.0 MPa	6240 psi	50 mm/min; ISO 527
Tensile Strength, Yield	49.0 MPa	7110 psi	Type I, 50 mm/min; ASTM D 638
	51.0 MPa	7400 psi	50 mm/min; ISO 527
Elongation at Break	40 %	40 %	Type I, 50 mm/min; ASTM D 638
	50 %	50 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D 638
	4.0 %	4.0 %	50 mm/min; ISO 527

Tensile Modulus Mechanical Properties	2.15 GPa Metric	312 ksi English	1 mm/min; ISO 527 Comments
	2.27 GPa	329 ksi	50 mm/min; ASTM D 638
	2.27 GPa	329 ksi	5 mm/min; ASTM D 638
Flexural Strength	73.0 MPa	10600 psi	ASTM D 790
Flexural Yield Strength	47.0 MPa	6820 psi	2 mm/min; ISO 178
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min; ISO 178
	2.14 GPa	310 ksi	ASTM D 790
Izod Impact, Notched	2.60 J/cm @Temperature -30.0 °C	4.87 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	4.50 J/cm @Temperature 0.000 °C	8.43 ft-lb/in @Temperature 32.0 °F	ASTM D 256
	5.60 J/cm @Temperature 23.0 °C	10.5 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	19.0 kJ/m ² @Temperature -30.0 °C	9.04 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1A
	46.0 kJ/m ² @Temperature 0.000 °C	21.9 ft-lb/in ² @Temperature 32.0 °F	80*10*3; ISO 180/1A
	55.0 kJ/m ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	80*10*3; ISO 180/1A
Charpy Impact, Notched	2.00 J/cm ² @Temperature -30.0 °C	9.52 ft-lb/in ² @Temperature -22.0 °F	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA
	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA
Impact Test	130 J	95.9 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C @Temperature -30.0 - 80.0 °C	44.4 µin/in-°F @Temperature -22.0 - 176 °F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C @Temperature -30.0 - 80.0 °C	44.4 µin/in-°F @Temperature -22.0 - 176 °F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	207 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	118 °C	244 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	117 °C	243 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 °C	203 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	118 °C	244 °F	Rate B/50; ISO 306
	118 °C	244 °F	Rate B/120; ISO 306
	129 °C	264 °F	Rate A/50; ISO 306

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