

SABIC Innovative Plastics Cyclooy® CY200FC PC+ABS (Europe-Africa-Middle East)

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

Material Notes:

High flow PC+ABS material designed for local Pacific Automotive applications 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-Cyclooy-CY200FC-PCABS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D 792
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.020 %	0.020 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 % @Temperature 23.0 °C	0.20 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0090 cm/cm @Thickness 3.20 mm	0.0050 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	17 g/10 min @Load 5.00 kg, Temperature 260 °C	17 g/10 min @Load 11.0 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	18 g/10 min @Load 5.00 kg, Temperature 260 °C	18 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	Type I, 50 mm/min; ASTM D 638
	53.0 MPa	7690 psi	50 mm/min; ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	Type I, 50 mm/min; ASTM D 638
	53.0 MPa	7690 psi	50 mm/min; ISO 527
Elongation at Break	100 %	100 %	Type I, 50 mm/min; ASTM D 638
	100 %	100 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D 638
	5.0 %	5.0 %	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	2.30 GPa	334 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
	2.25 GPa	326 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	3.70 J/cm @Temperature -30.0 °C	6.93 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	4.70 J/cm @Temperature 23.0 °C	8.81 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	25.0 kJ/m² @Temperature -30.0 °C	11.9 ft-lb/in² @Temperature -22.0 °F	80*10*3; ISO 180/1A
	45.0 kJ/m² @Temperature 23.0 °C	21.4 ft-lb/in² @Temperature 73.4 °F	80*10*3; ISO 180/1A
Charpy Impact, Notched	2.50 J/cm² @Temperature -30.0 °C	11.9 ft-lb/in² @Temperature -22.0 °F	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA
	5.00 J/cm² @Temperature 23.0 °C	23.8 ft-lb/in² @Temperature 73.4 °F	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA
Impact Test	60.0 J @Temperature 23.0 °C	44.3 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C @Temperature -40.0 - 40.0 °C	44.4 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	80.0 µm/m-°C @Temperature -40.0 - 40.0 °C	44.4 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C @Temperature -40.0 - 40.0 °C	44.4 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	80.0 µm/m-°C	44.4 µin/in-°F	

Thermal Properties	Metric @ Temperature -40.0 - 40.0 °C	English @ Temperature -40.0 - 104 °F	Comments
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	100 °C	212 °F	unannealed; ASTM D 648
	@ Thickness 3.20 mm	@ Thickness 0.126 in	
Vicat Softening Point	122 °C	252 °F	Rate B/50; ASTM D 1525
	122 °C	252 °F	Rate B/50; ISO 306
	123 °C	253 °F	Rate B/120; ISO 306

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