

SABIC Innovative Plastics Cycology® FXC810AL PC+ABS (Europe-Africa-Middle East)

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

Material Notes:

CYCOLOY FXC810AL is a multi-purpose PC+ABS injection moulding grade, suitable for those applications that require Alpine White colour effects. The colour package may effect performance. 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-Cycology-FXC810AL-PCABS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.60 % @Temperature 23.0 °C	0.60 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	on tensile bar; SABIC Method
Melt Flow	24 g/10 min @Load 5.00 kg, Temperature 260 °C	24 g/10 min @Load 11.0 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	50 mm/min; ISO 527
Tensile Strength, Yield	58.0 MPa	8410 psi	50 mm/min; ISO 527
Elongation at Break	>= 50 %	>= 50 %	50 mm/min; ISO 527
Elongation at Yield	5.2 %	5.2 %	50 mm/min; ISO 527
Tensile Modulus	2.23 GPa	323 ksi	1 mm/min; ISO 527
Flexural Yield Strength	83.0 MPa	12000 psi	2 mm/min; ISO 178
Flexural Modulus	2.24 GPa	325 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1A
	25.0 kJ/m ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	80*10*3; ISO 180/1A
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	V-notch Edgew 80*10*3 sp=62mm;

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	ISO 179/1eA Comments
	2.50 J/cm ²	11.9 ft-lb/in ²	V-notch Edgew 80*10*3 sp=62mm; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	111 °C	232 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	129 °C	264 °F	Rate B/50; ISO 306
	135 °C	275 °F	Rate B/120; ISO 306

Descriptive Properties	Value	Comments
Ball Pressure Test, 75°C +/- 2°C	PASSES	IEC 60695-10-2

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