

SABIC Innovative Plastics Cycology® FXC630SK PC+ABS

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

Material Notes:

Color package may affect performance. PC+ABS, ECO-conforming flame retardant with diamond sparkle appearance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycology-FXC630SK-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
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
Melt Flow	13.5 g/10 min @Load 2.16 kg, Temperature 260 °C	13.5 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238
Melt Index of Compound	14 g/10 min @Load 2.16 kg, Temperature 260 °C	14 g/10 min @Load 4.76 lb, Temperature 500 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	50 mm/min; ISO 527
	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 50 mm/min; ASTM D638
	60.0 MPa	8700 psi	50 mm/min; ISO 527
Elongation at Break	7.0 %	7.0 %	50 mm/min; ISO 527
	20 %	20 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.80 GPa	406 ksi	1 mm/min; ISO 527
	3.10 GPa	450 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
	94.0 MPa	13600 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
	2.68 GPa	389 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.13 J/cm	3.99 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	47.0 J	34.7 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C	40.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	72.0 µm/m-°C	40.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	95.0 °C	203 °F	Rate B/120; ISO 306
	98.0 °C	208 °F	Rate B/50; ASTM D1525
UL RTI, Electrical	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical with Impact	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical without Impact	60.0 °C	140 °F	UL 746B
Flammability, UL94	V-2	V-2	UL 94
	@Thickness 1.01 mm	@Thickness 0.0398 in	
	V-1	V-1	UL 94
	@Thickness 1.19 mm	@Thickness 0.0469 in	
	V-0	V-0	UL 94
	@Thickness 1.49 mm	@Thickness 0.0587 in	
	5VB	5VB	UL 94
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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