

SABIC Innovative Plastics Cycloy® EFX830ME PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Flame retardant modified PC blend using non-brominated and non-chlorinated flame retardant systems, offering metallic / sparkle look with minimal flow line visibility. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-EFX830ME-PC.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.25 % @Temperature 23.0 °C	0.25 % @Temperature 73.4 °F	ISO 62
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 260 °C	7.0 g/10 min @Load 4.76 lb, Temperature 500 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	50 mm/min; ISO 527
Tensile Strength, Yield	62.0 MPa	8990 psi	50 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	2.70 GPa	392 ksi	1 mm/min; ISO 527
Flexural Yield Strength	97.0 MPa	14100 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	31.0 kJ/m ² @Temperature 23.0 °C	14.8 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm;

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	ISO 179/1eA Comments
	0.700 J/cm ²	3.33 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	103 °C	217 °F	Rate B/50; ISO 306
	105 °C	221 °F	Rate B/120; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ASTM D 257
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ASTM D 257
Dielectric Constant	2.9 @Frequency 50.0 - 60.0 Hz	2.9 @Frequency 50.0 - 60.0 Hz	ASTM D 150
	2.9 @Frequency 1.00e+6 Hz	2.9 @Frequency 1.00e+6 Hz	ASTM D 150
Dissipation Factor	0.0040 @Frequency 1.00e+6 Hz	0.0040 @Frequency 1.00e+6 Hz	ASTM D 150
	0.020 @Frequency 50.0 - 60.0 Hz	0.020 @Frequency 50.0 - 60.0 Hz	ASTM D 150

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