

SABIC Innovative Plastics LNP FARADEx DS0036I PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* FARADEx* DS0036I is a compound based on Polycarbonate resin containing 15% Stainless Steel. Added features of this material include: Electrically Conductive, EMI/RFI Shielding, High Impact, Non-Brominated & Non-Chlorinated Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-FARADEx-DS0036I-PC.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	ISO 527
Tensile Strength, Yield	57.0 MPa	8270 psi	ISO 527
Elongation at Break	4.0 - 8.0 %	4.0 - 8.0 %	ISO 527
Elongation at Yield	3.8 %	3.8 %	ISO 527
Tensile Modulus	2.80 GPa	406 ksi	1 mm/min; ISO 527
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	2.60 GPa	377 ksi	ISO 178
Izod Impact, Notched	1.22 J/cm	2.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	17.88 J/cm	33.50 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	85.0 kJ/m ²	40.4 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	67.0 µm/m-°C	37.2 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties CTE, linear, Transverse to Flow	56.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	31.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments ISO 11359-2
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	136 $^\circ\text{C}$	277 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	125 $^\circ\text{C}$	257 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
Flammability, UL94	V-0 @Thickness 2.10 mm	V-0 @Thickness 0.0827 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D257
Surface Resistance	100 - 1000 ohm	100 - 1000 ohm	ASTM D257
Shielding Effectiveness	40 - 55 dB @Thickness 3.00 mm	40 - 55 dB @Thickness 0.118 in	SABIC Method

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