

## SABIC Innovative Plastics LNP Faradex DS0036IP PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* Faradex\* DS0036IP is a compound based on Polycarbonate resin containing Stainless Steel. Added features of this material include: Electrically Conductive, EMI/RFI Shielding, High Impact, Non-Brominated & Non-Chlorinated Flame Retardant. 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-LNP-Faradex-DS0036IP-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Faradex-DS0036IP-PC.php)

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

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 @Temperature 23.0 °C	2.29 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	17.88 J/cm @Temperature 23.0 °C	33.50 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	5.23 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	85.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	40.4 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	67.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	37.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^{\circ}\text{C}$	@Temperature -40.0 - 104 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	56.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	31.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	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	V-0	UL 94 by SABIC-IP
	@Thickness 2.10 mm	@Thickness 0.0827 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D 257
Surface Resistance	100 - 1000 ohm	100 - 1000 ohm	ASTM D 257
Shielding Effectiveness	40 - 55 dB	40 - 55 dB	SABIC Method
	@Thickness 3.00 mm	@Thickness 0.118 in	

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