

## SABIC Innovative Plastics LNP FARADEx DS0036I PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-FARADEx-DS0036I-PC-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-FARADEx-DS0036I-PC-Europe-Africa-Middle-East.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	0.0040 - 0.0070 in/in	on Tensile Bar; SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	5 mm/min; ISO 527
Tensile Strength, Yield	57.0 MPa	8270 psi	5 mm/min; ISO 527
Elongation at Break	4.0 - 8.0 %	4.0 - 8.0 %	5 mm/min; ISO 527
Elongation at Yield	3.8 %	3.8 %	5 mm/min; ISO 527
Tensile Modulus	2.50 GPa	363 ksi	1 mm/min; ISO 527
Flexural Yield Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
Flexural Modulus	2.60 GPa	377 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.25 J/cm	2.34 ft-lb/in	ASTM D256
Izod Impact, Unnotched	17.9 J/cm	33.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.0 µm/m-°C @Temperature 23.0 - 60.0 °C	31.7 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2

Thermal Properties CTE, linear, transverse to Flow	68.0 µm/m-°C Metric	37.8 µm/in-°F English	Comments ISO 11358-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Deflection Temperature at 0.46 MPa (66 psi)	136 °C	277 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Flammability, UL94	V-0 @Thickness 2.00 mm	V-0 @Thickness 0.0787 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 - 1.00e+6 ohm-cm	10000 - 1.00e+6 ohm-cm	ASTM D257
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257
Shielding Effectiveness	40 - 55 dB @Thickness 3.00 mm	40 - 55 dB @Thickness 0.118 in	SABIC Method

## Contact Songhan Plastic Technology Co.,Ltd.

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