

## SABIC Innovative Plastics LNP FARADEx NS003 PC+ABS (Asia Pacific)

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

### Material Notes:

LNP\* Faradex\* NS003 is a compound based on PC+ABS Blend resin containing Stainless Steel. Added features of this material include:  
Electrically Conductive, EMI/RFI Shielding.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-FARADEx-NS003-PCABS-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-FARADEx-NS003-PCABS-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ISO 1183
	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0035 cm/cm	0.0035 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ISO 527
	49.0 MPa	7110 psi	ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527
	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	4.7 %	4.7 %	ASTM D638
	6.0 %	6.0 %	ISO 527
Elongation at Yield	3.3 %	3.3 %	ASTM D638
	3.5 %	3.5 %	ISO 527
Tensile Modulus	2.70 GPa	392 ksi	1 mm/min; ISO 527
	3.10 GPa	450 ksi	50 mm/min; ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ISO 178
	89.0 MPa	12900 psi	ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	ISO 178

Mechanical Properties	Metric <sup>Pa</sup>	English	Comments
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.73 J/cm	10.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	32.0 kJ/m <sup>2</sup>	15.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.0 µm/m-°C	32.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	77.4 µm/m-°C	43.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	63.0 µm/m-°C	35.0 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)	82.0 µm/m-°C	45.6 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	120 °C	248 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	103 °C	217 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	105 °C	221 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D257
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257
Shielding Effectiveness	50 - 65 dB	50 - 65 dB	SABIC Method
	@Thickness 3.00 mm	@Thickness 0.118 in	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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