

**SABIC Innovative Plastics LNP FARADEx AS002 ABS**

Category : Polymer , Thermoplastic , ABS Polymer

**Material Notes:**

LNP\* Faradex\* AS002 is a compound based on Acrylonitrile Butadiene Styrene resin containing 10% 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-AS002-ABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-FARADEx-AS002-ABS.php)

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	ISO 1183
	1.12 g/cc	0.0405 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0018 cm/cm	0.0018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0027 cm/cm	0.0027 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 psi	ISO 527
	39.0 MPa	5660 psi	ASTM D638
Tensile Strength, Yield	39.0 MPa	5660 psi	ISO 527
	42.0 MPa	6090 psi	ASTM D638
Elongation at Break	3.3 %	3.3 %	ISO 527
	8.6 %	8.6 %	ASTM D638
Elongation at Yield	2.2 %	2.2 %	ASTM D638
	2.2 %	2.2 %	ISO 527
Tensile Modulus	2.50 GPa	363 ksi	1 mm/min; ISO 527
	2.99 GPa	434 ksi	50 mm/min; ASTM D638
Flexural Strength	66.0 MPa	9570 psi	ISO 178
	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ISO 178

Mechanical Properties	Metric <sup>1)a</sup>	English	Comments
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.86 J/cm	5.36 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/m <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	78.0 µm/m-°C	43.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	79.2 µm/m-°C	44.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	75.6 µm/m-°C	42.0 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)	96.0 µm/m-°C	53.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	91.0 °C	196 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	97.0 °C	207 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C	172 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	87.0 °C	189 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1.00e+6 ohm-cm	100 - 1.00e+6 ohm-cm	ASTM D257
Surface Resistance	10 ohm - 1e+05	10 ohm - 1e+05	ASTM D257
Shielding Effectiveness	40 - 55 dB	40 - 55 dB	SABIC Method
	@Thickness 3.00 mm	@Thickness 0.118 in	

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