

## SABIC Innovative Plastics LNP FARADEx NX96302 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

### Material Notes:

LNP\* FARADEx\* NX96302 is a compound based on PC+ABS resin containing Stainless Steel Fibers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-FARADEx-NX96302-PCABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-FARADEx-NX96302-PCABS.php)

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.170 %	0.170 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
	60.0 MPa	8700 psi	5 mm/min; ISO 527
Tensile Strength, Yield	61.0 MPa	8850 psi	5 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.1 %	6.1 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.2 %	3.2 %	50 mm/min; ISO 527
	3.7 %	3.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.30 GPa	479 ksi	50 mm/min; ASTM D638
	3.45 GPa	500 ksi	1 mm/min; ISO 527
Flexural Yield Strength	109 MPa	15800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.39 GPa	492 ksi	2 mm/min; ISO 178
	3.59 GPa	521 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.540 J/cm	1.01 ft-lb/in	ASTM D256

<b>Mechanical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear, Parallel to Flow	61.0 μm/m-°C	33.9 μin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	67.0 μm/m-°C	37.2 μin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	103 °C	217 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	103 °C	217 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C	201 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	96.0 °C	205 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Surface Resistance	1.0 - 3.0 ohm	1.0 - 3.0 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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