

## SABIC Innovative Plastics LNP FARADEx MS002 PP (Asia Pacific)

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP\* Faradex\* MS002 is a compound based on Polypropylene 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-MS002-PP-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-FARADEx-MS002-PP-Asia-Pacific.php)

| Physical Properties | Metric     | English                   | Comments  |
|---------------------|------------|---------------------------|-----------|
| Density             | 0.970 g/cc | 0.0350 lb/in <sup>3</sup> | ISO 1183  |
|                     | 1.12 g/cc  | 0.0405 lb/in <sup>3</sup> | ASTM D792 |

| Mechanical Properties        | Metric                 | English                    | Comments            |
|------------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength at Break    | 15.0 MPa               | 2180 psi                   | ISO 527             |
| Tensile Strength, Yield      | 19.0 MPa               | 2760 psi                   | ISO 527             |
| Elongation at Break          | 70 %                   | 70 %                       | ISO 527             |
| Elongation at Yield          | 6.1 %                  | 6.1 %                      | ISO 527             |
| Tensile Modulus              | 1.20 GPa               | 174 ksi                    | 1 mm/min; ISO 527   |
| Flexural Strength            | 31.0 MPa               | 4500 psi                   | ISO 178             |
| Flexural Modulus             | 1.40 GPa               | 203 ksi                    | ISO 178             |
| Izod Impact, Notched (ISO)   | 25.0 kJ/m <sup>2</sup> | 11.9 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 100 kJ/m <sup>2</sup>  | 47.6 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1U |

| Thermal Properties                          | Metric                                      | English                                       | Comments                         |
|---------------------------------------------|---------------------------------------------|-----------------------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow               | 116 µm/m-°C<br>@Temperature -40.0 - 40.0 °C | 64.4 µin/in-°F<br>@Temperature -40.0 - 104 °F | ISO 11359-2                      |
| CTE, linear, Transverse to Flow             | 156 µm/m-°C<br>@Temperature -40.0 - 40.0 °C | 86.7 µin/in-°F<br>@Temperature -40.0 - 104 °F | ISO 11359-2                      |
| Deflection Temperature at 1.8 MPa (264 psi) | 56.0 °C                                     | 133 °F                                        | Flatw 80*10*4 sp=64mm; ISO 75/Af |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Surface Resistance<br>Electrical Properties | 10 - 1000 ohm<br>Metric          | 10 - 1000 ohm<br>English          | ASTM D257<br>Comments |
|---------------------------------------------|----------------------------------|-----------------------------------|-----------------------|
| Shielding Effectiveness                     | 40 - 55 dB<br>@Thickness 3.00 mm | 40 - 55 dB<br>@Thickness 0.118 in | SABIC Method          |

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