

SABIC Innovative Plastics LNP FARADEx AS002 ABS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* Faradex* AS002 is a compound based on Acrylonitrile Butadiene Styrene 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-AS002-ABS-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------|---------------------------|---------------------------|
| Density | 1.11 g/cc | 0.0401 lb/in ³ | ISO 1183 |
| | 1.12 g/cc | 0.0405 lb/in ³ | 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 Mechanical Properties | 2.50 GPa Metric | 363 ksi English | ISO 178 Comments |
|---|------------------------|----------------------------|--|
| | 2.81 GPa | 408 ksi | ASTM D790 |
| 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 ² | 3.33 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 20.0 kJ/m ² | 9.52 ft-lb/in ² | 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 | |
| | 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 |

Electrical Properties

Metric
@ Thickness 3.00 mm

English
@ Thickness 0.118 in

Comments

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