

# LNPT<sup>™</sup> FARADEX<sup>™</sup> COMPOUND ZX93134

## DESCRIPTION

LNP FARADEX ZX93134 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing stainless steel fiber and glass fiber. Added features of this grade include: Electrically Conductive, EMI/RFI shielding.

### GENERAL INFORMATION

|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| Features              | Electrically Conductive, EMI/RFI Shielding, No PFAS intentionally added |
| Fillers               | Glass Fiber, Stainless Steel Fiber                                      |
| Polymer Types         | Polyphenylene Ether + PS (PPE+PS)                                       |
| Processing Techniques | Injection Molding                                                       |

### INDUSTRY

Consumer  
Electrical and Electronics  
Industrial  
Packaging

### SUB INDUSTRY

Commercial Appliance  
Electronic Components  
Electrical, Material Handling  
Industrial Packaging

## TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES                              | TYPICAL VALUES  | UNITS             | TEST METHODS |
|-----------------------------------------|-----------------|-------------------|--------------|
| <b>MECHANICAL <sup>(1)</sup></b>        |                 |                   |              |
| Tensile Stress, yield, 5 mm/min         | 81              | MPa               | ISO 527      |
| Tensile Strain, break, 5 mm/min         | 1.3             | %                 | ISO 527      |
| Flexural Stress, yield, 2 mm/min        | 120             | MPa               | ISO 178      |
| Flexural Modulus, 2 mm/min              | 5300            | MPa               | ISO 178      |
| <b>IMPACT <sup>(1)</sup></b>            |                 |                   |              |
| Izod Impact, unnotched 80*10*4 +23°C    | 25              | kJ/m <sup>2</sup> | ISO 180/1U   |
| Izod Impact, notched 80*10*4 +23°C      | 7               | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL <sup>(1)</sup></b>           |                 |                   |              |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm   | 137             | °C                | ISO 75/Af    |
| <b>PHYSICAL <sup>(1)</sup></b>          |                 |                   |              |
| Mold Shrinkage, flow <sup>(2)</sup>     | 0.2 – 0.4       | %                 | SABIC method |
| Density                                 | 1.3             | g/cm <sup>3</sup> | ISO 1183     |
| <b>ELECTRICAL <sup>(1)</sup></b>        |                 |                   |              |
| Surface Resistivity <sup>(3)</sup>      | 1.E+01 – 1.E+03 | Ω                 | ASTM D257    |
| Shielding Effectiveness @ 3mm           | 50 – 60         | dB                | SABIC method |
| <b>INJECTION MOLDING <sup>(4)</sup></b> |                 |                   |              |
| Drying Temperature                      | 120             | °C                |              |
| Drying Time                             | 4               | Hrs               |              |
| Melt Temperature                        | 300 – 305       | °C                |              |
| Front - Zone 3 Temperature              | 300 – 310       | °C                |              |
| Middle - Zone 2 Temperature             | 290 – 300       | °C                |              |

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CHEMISTRY THAT MATTERS<sup>™</sup>

| PROPERTIES                | TYPICAL VALUES | UNITS | TEST METHODS |
|---------------------------|----------------|-------|--------------|
| Rear - Zone 1 Temperature | 275 – 290      | °C    |              |
| Mold Temperature          | 80 – 110       | °C    |              |
| Back Pressure             | 0.2 – 0.3      | MPa   |              |
| Screw Speed               | 30 – 60        | rpm   |              |

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (3) Measurement meets requirements as specified in ASTM D4496.
- (4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

### ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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