

MATERIAL DATA SHEET



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Material Data Sheet: Z-ESD

| Physical Properties | Metric | English | Comments |
|--|--|--|-----------|
| Density | 1.28 g/cm ³ | 10.682 lbs/gal | ISO 1183 |
| Mold Shrinkage, flow | 0.3 - 0.5% | 0.3 - 0.5% | |
| Mechanical Properties | Metric | English | Comments |
| Hardness, Rockwell R | 109 | 109 | ASTM D758 |
| Tensile Strength | 46 MPa | 6671 psi | ISO 527 |
| Elongation at Break | 13.5% | 13.5% | ISO 527 |
| Tensile Modulus | 1.79 GPa | 260 ksi | ISO 527 |
| Flexural Strength | 74 MPa | 10733 psi | ISO 178 |
| Flexural Modulus | 1.78 GPa | 258 ksi | ISO 178 |
| Thermal Properties | Metric | English | Comments |
| Vicat Softening Point | 84 °C | 183.2 °F | ISO 306 |
| Flame Class Rating | V-2 Thickness 3 mm | V-2 Thickness 0.12 in | UL-94 |
| Deflection Temperature at 0.45 MPa (66 psi) | 77 °C | 170.6 °F | ISO 75 |
| Glass Transition Temperature | 80 °C | 176 °F | DSC |
| Electrical Properties | Metric | English | Comments |
| Surface Resistivity | > 10 ⁶ - 10 ⁹ < Ohm/sq | > 10 ⁶ - 10 ⁹ < Ohm/sq | IEC 60093 |

The data presented in this document are intended for information and comparison purposes only. They should not be used for project specifications or its quality evaluation. The material's actual properties depend on the printing process conditions, the design structure and its purpose, test conditions, etc.

Samples of Z-ESD used to carry out the tests were made through plastic moulding.

Product specifications are subject to change without notice.

Each user is responsible for complying with product safety standards, its intended use as well as the law and waste disposal (and recycling) rules for electrical and electronic equipment. Zortrax does not make any express or implied warranties, including but not limited to implied warranties of merchantability or fitness for a particular purpose.

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