

MATERIAL DATA SHEET



Date of issue: 21.03.2017 | Version: 1.00

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.

Zortrax S.A.
Lubelska 34
10-409 Olsztyn, Poland
NIP: 7393864289
REGON: 281551179

Contact
Office: office@zortrax.com
Sales Department: sales@zortrax.com
Support Center: support@zortrax.com

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