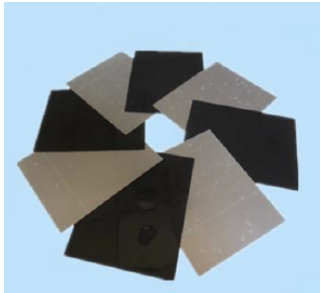


M-S WC – MAGNETIC SHEET FOR WIRELESS CHARGING



DATASHEET



FEATURES

- High permeability 'u' (500-1000) flexible magnetic sheet for wireless charging applications
- Made from Iron-Based Amorphous or Nano-Crystalline Strip creating an ultra-thin (30um), high Bs magnetic material, providing charging efficiencies of >70%
- Supplied in thickness range from 0.03 – 0.3 mm in sheet form with cover film (PET) and double-sided adhesive for easy assembly. Custom thicknesses and sizes available
- Low core loss – reduces Eddy Current losses - improves wireless charging efficiency

APPLICATIONS

- Wireless Charging Devices / Wireless Power Systems
- Wireless Charging for Mobile Phones and battery powered hand-held equipment, Automotive / SMART car
- Enhances power transfer efficiency between primary sending and pickup antenna coils
- Material positioned between the Receiving Antenna Coil and the metal parts/battery enclosure improves charging efficiency and range

PROPERTIES	NANO-CRYSTALLINE (NC)	AMORPHOUS (A)	UNIT
Magnetic Induction B800/T	1.25	1.56	-
Permeability (@200kHz) Real μ' Imaginary μ''	500-1000 20-50	500-1000 30-60	-
Coercive Force (Hc)	≤ 1.6	< 4	A/m
Resistivity	≥ 130	≥ 130	$\mu \Omega$ cm
Curie Temperature	570	400	$^{\circ}\text{C}$
Thickness ($\pm 10\%$)	0.03-0.30	0.035-0.30	mm
Operating Temperature	-40 to 85	-40 to 85	$^{\circ}\text{C}$
ROHS	Compliance	Compliance	-

NOTES

- Customised shapes are available
- The above performance data is tested in an environment of 70% humidity, temperature 25 $^{\circ}\text{C}$
- This data is intended for reference purposes only. It is recommended that the material is tested to fully evaluate its performance ensuring it is fit for purpose.

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DK-DALEBA
ORLAND HOUSE
MEAD LANE
HERTFORD
SG13 7AT UK

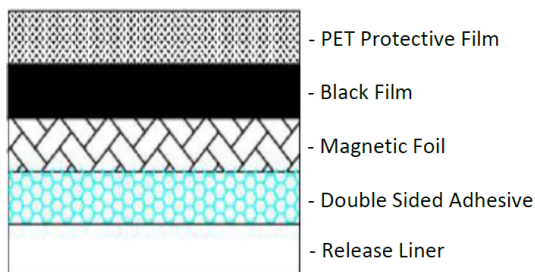
PHONE: +44(0)1992 510000
EMI@DK-DALEBA.CO.UK
WWW.EMITHERMAL.COM

EMI THERMAL IS A BRAND OF DK-DALEBA

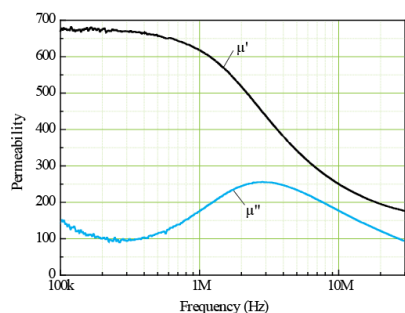
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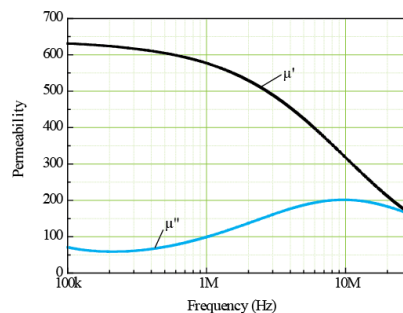
DATASHEET



AMORPHOUS MAGNETIC SHEET



NANO CRYSTALLINE MAGNETIC SHEET



NOTES

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