

EST™ D Paper

Product Data Sheet



Product Description

EST D Paper is surface treated on one side and developed for pack level protection in lithium ion battery packs.

EST D Paper is uniquely manufactured from Superwool® bulk fibres and organic binders. The coating to the EST D Paper allows for dust suppression into the pack.

Superwool fibres provide stability and resistance to chemical attack. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis (i.e. NaOH, KOH). Superwool is unaffected by incidental spills of oil or water. Thermal and physical properties are restored after drying.

Benefits

- Meets UL94 V-0 requirements
- Dust suppressant coating
- Low thermal conductivity
- Easily cut to shape

Applications

- Pack level protection of Lithium Ion batteries

Environmental & Health Safety

Superwool low biopersistent fibres manufactured by Morgan Advanced Materials are not classified as carcinogenic by IARC or under any national regulations on a global basis. They have no requirements for warning labels under GHS (Globally Harmonised System for the classification and labelling of chemicals).

In Europe, Superwool fibres meet the requirements specified under Note Q of European Regulation EC/1272/2008 (on Classification, Labelling and Packaging of substances and mixtures). All Morgan Advanced Materials Superwool low biopersistent fibre products are therefore exonerated from classification and labelling as hazardous in Europe.

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EST D Paper	
Colour	White
Classification Temperature, °C (°F)	1100 - 1300 (2010 - 2370)
Density, kg/m ³ (pcf)	240 - 270 (15 - 17)
Loss of ignition, %	10 - 13
Dielectric Breakdown, kΩ, kV/mm	>2
Thickness, mm (in)	0.8 - 6 (0.03 - 0.24)
Thermal Conductivity, W/m·K (BTU·in/hr·ft ² ·°F), Descending	
200°C (392°F)	0.05 (0.35)
400°C (752°F)	0.07 (0.49)
600°C (1112°F)	0.11 (0.76)
800°C (1472°F)	0.16 (1.11)
1000°C (1832°F)	0.23 (1.60)

Whilst the values and application information in this datasheet are typical, they are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials - Thermal Ceramics.