



Product Data

Glass Needlemats

Style

E'Glass Needlemat

Description

Saveguard E'glass needlemat is manufactured from 9 micron filament E'glass fibres that are specially carded to produce a high volume batt. This is then mechanically needled to bond the fibres, which results in a dimensionally stable matt or felt possessing excellent insulating properties without any chemical binder. Saveguard needlemat is soft, drapable, easily cut, ideally suited for die-cut components and can be foil laminated.

NB. We also offer a complete cutting and die cutting service

Properties

E'Glass fibres have a minimal amount of surface dressing that is required to assist in processing, this is usually organic ie. starch or silane and will disappear at temperatures above 200° C.

E'Glass Needlemats are suitable for continuous use at temperatures up to 550° C however tensile strength continues to reduce noticeably as temperatures increase above 400° C.

Glass fibres: are resistant to most oils, solvents and chemicals except Phosphoric, Hydrofluoric acids, although contact with strong alkalis and live steam should be avoided.

are non combustible.

have a low thermal conductivity

Thermal conductivity: .078 w/mK 300 °C mean

Loss on Ignition: < 1.2%

Please note Can be supplied low size *Style* LS with L.O.I. < 0.4%

Chemical Properties

E' Glass	SiO ₂	54.1%
	Al ₂ O ₃	15.3%
	CaO	17.3%
	MgO	4.7%
	Na ₂ O	0.6%
	B ₂ O ₃	8.0%

Availability

Width: 100cm standard (others available on request)

Thickness	4mm	6mm	9mm	12mm	18mm	25mm
Weight per m ² 150 Kg/m ³	600	900	1350	1800	2700	3600
Weight per m ² 130 Kg/m ³	520	780	1171	1560	2340	3125
Roll Length	50	50	30	20	15	10

Density: available in a range of densities from 100 -160Kg/m³

Typical

Applications:

- Acoustic insulation media for exhaust silencers
- Thermal insulation for domestic appliances
- Filtration
- Heatshields (as pre-preg)
- General industrial thermal and acoustic insulation

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