

E GLASSFLAKE UNMILLED Grade GF100E



Technical Information

High mechanical and dielectric strength glassflake, manufactured from E glass.

Chemical Analysis

SiO ₂	=	50 - 56%
K ₂ O	=	0 - 0.1%
B ₂ O ₃	=	5 - 11%
ZnO	=	0 - 5%
Na ₂ O	=	0 - 0.5%
MgO	=	0 - 5%
CaO	=	16 - 25%
Al ₂ O ₃	=	12 - 16%
TiO ₂	=	0 - 2%

Physical Properties

Apparent Density (H ₂ O=1)	0.085
Real Density (H ₂ O=1)	2.60
Softening Temperature DIM 52324	820°C
Melt Temperature (molten - flow)	1060 - 1140°C
Refractive Index	1.56

Glass composition may vary slightly from batch to batch

Particle Size Distribution

By Malvern Mastersizer
D50 = 140 - 160µm

Thickness

The nominal thickness of the glass is 1.0 - 1.30µm

Surface coatings

Glassflake materials are offered with the option of surface pre-treatment with a range of silane coupling agents;

- 3-Aminopropyltriethoxy Silane (Amino)
- Vinyl trimethoxy Silane (Vinyl)
- γ-Glycidoxypropyltrimethoxy Silane (Epoxy)
- Methacryloxypropyltrimethoxy Silane (Acrylic)

Packaging

GF100E is packed in 7.5kg (net.) anti-static, antislip, heat sealed PE sacks.
Bulk shipments are further packed in pallet boxes containing 14 sacks (105kg net.)
Pallet box dimensions are 1200 x 1100 x 800mm