E GLASSFLAKE MICRONISED Grade GF001E

Technical Information

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

Chemical Analysis

SiO_2	=	50 - 56%
K_2O	=	0 - 0.1%
B_2O_3	=	5 - 11%
ZnO	=	0 - 5%
Na_2O	=	0 - 0.5%
MgO	=	0 - 5%
CaO	=	16 - 25%
Al_2O_3	=	12 - 16%
TiO_2	=	0 - 2%

Physical Properties

Apparent Density (H2O=1)	0.35
Real Density (H_2O=1)	2.60
Softening Temperature DIM 52324	820^{O}C
Melt Temperature (molten - flow)	1060 - 1140^{O}C
Refractive Index	1.56

Glass composition may vary slightly from batch to batch

Particle Size Distribution

By **Malvern Mastersizer 3000**
D50 = 27 - 32µm

Thickness

The nominal thickness of the glass is 1.0 - 1.3 µm

Surface coatings

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

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

Packaging

GF001E is packed in 25kg (net.) anti-static, antislip, heat sealed PE sacks.
Bulk shipments are further packed in pallet boxes containing 20 sacks (500kg net.)
Pallet box dimensions are (L) 1200 x (W) 1100

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This information is given in good faith without guarantee or liability. All Values are approximate.