

# E GLASSFLAKE MICRONISED Grade GF007E



## Technical Information

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

### Chemical Analysis

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

### Physical Properties

Apparent Density (H <sub>2</sub> O=1)	0.10
Real Density (H <sub>2</sub> 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 = 27 - 32µm

### Thickness

The nominal thickness of the glass is 5µm +/- 2

### Oil Absorption

ASTM D281-12 - In a range of 75 - 95 g/ 100g

### 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

GF007E is packed in 20kg (net.) anti-static, antislip, heat sealed PE sacks.  
Bulk shipments are further packed in pallet boxes containing 25 sacks (500kg net.)  
Pallet box dimensions are 1200 x 1100 x 800mm

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