

# ECR GLASSFLAKE UNMILLED Grade GF500nm



## Technical Information

Electrically / corrosion resistant glass flake is manufactured from ECR glass.

### Chemical Analysis

SiO <sub>2</sub>	=	64 - 70%
K <sub>2</sub> O	=	0 - 3%
B <sub>2</sub> O <sub>3</sub>	=	2 - 5%
ZnO	=	1 - 5%
Na <sub>2</sub> O	=	8 - 13%
MgO	=	1 - 4%
CaO	=	3 - 7%
Al <sub>2</sub> O <sub>3</sub>	=	3 - 6%
TiO <sub>2</sub>	=	0 - 3%

### Physical Properties

Apparent Density (H <sub>2</sub> O=1)	0.025
Real Density (H <sub>2</sub> O=1)	2.60
Softening Temperature DIM 52324	688°C
Melt Temperature (molten - flow)	930 - 1020°C
Refractive Index	1.52

Glass composition may vary slightly from batch to batch

### Particle Size Distribution

1700 - 150µm	80% or more
< 150µm	20% or less

### Thickness

The nominal thickness of the glass is ca.500nm

## Surface coatings

Glassflake materials are offered with the option of surface pre-treatment with a range of silane silane coupling agents, listed below :

- 3-Aminopropyltriethoxy Silane
- Vinyl trimethoxy Silane
- γ-Glycidoxypropyltrimethoxy Silane
- Methacryloxypropyltrimethoxy Silane

## Packaging

GF500nm is packed in 1kg (net.) anti-static, antislip, heat sealed PE sacks.  
Bulk shipments are further packed in pallet boxes containing 55 sacks (50kg net.)  
Pallet box dimensions are 1200 x 1100 x 800mm

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