ECR GLASSFLAKE
MILLED
Grade GF100M

Technical Information

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

Chemical Analysis

SiO_2	=	64 - 70%
K_2O	=	0 - 3%
B_2O_3	=	2 - 5%
ZnO	=	1 - 5%
Na_2O	=	8 - 13%
MgO	=	1 - 4%
CaO	=	3 - 7%
Al_2O_3	=	3 - 6%
TiO_2	=	0 - 3%

Physical Properties

Apparent Density (H_2O=1)	0.10
Real Density (H_2O=1)	2.60
Softening Temperature DIM 52324	688^{O}C
Melt Temperature (molten - flow)	930 - 1020^{O}C
Refractive Index	1.52

Glass composition may vary slightly from batch to batch

Particle Size Distribution

1000 - 300µm	10% or less
300 - 50µm	65% or more
< 50µm	25% or less

Thickness

The nominal thickness of the glass is 1.0 - 1.3 µm

Oil Absorption

ASTM D281-12 - In a range of 400 - 460g/ 100g

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

GF100M is packed in 15kg (net.) anti-static, antislip, heat sealed PE sacks.
Bulk shipments are further packed in pallet boxes containing 15 sacks (225kg net.)
Pallet box dimensions are 1200 x 1100 x 800mm

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