

ECR GLASS FLAKE MILLED

Grade GF 100M

Technical Information



Extra Corrosion Resistant Glass Flake is manufactured from a modified C glass.

Chemical Analysis

| | | |
|--------------------------------|---|----------|
| SiO ₂ | = | 64 -70% |
| Al ₂ O ₃ | = | 3 - 6% |
| CaO | = | 3 - 7% |
| MgO | = | 1 - 4% |
| B ₂ O ₃ | = | 2 - 5% |
| Na ₂ O | = | 13 - 12% |
| K ₂ O | = | 0 - 3% |
| TiO ₂ | = | 0 - 3% |
| ZnO | = | 1 - 5% |

Physical Properties

| | |
|---|--------------|
| Apparent Density (H ₂ O = 1) | 0.1 |
| Real Density (H ₂ O = 1) | 2.60 |
| Transformation Temperature | 553°C |
| ASTM C 338 | |
| Softening Temperature | 688°C |
| DIM 52324 | |
| Melt Temperature (molten – flow) | 930 - 1020°C |
| Refractive Index | 1.52 |

Glass composition may vary from batch to batch

Particle Size Distribution

| | |
|---------------|-------------|
| > 1000 µm | 0% |
| 1000 - 300 µm | 10% or less |
| 300 – 50 µm | 65% or more |
| < 50 µm | 25% or less |

Thickness

The nominal thickness of the glass is 0.9-1.3µm

Surface Coatings Available

Glass Flake is normally supplied untreated, however, the glass flake is available with a range of surface coatings:-

- 3-Aminopropyltriethoxysilane
- Vinyl trimethoxysilane
- γ-Glycidoxypropyltrimethoxysilane
- Methacryloxypropyl trimethoxy silane

Packaging

The Glass Flake is packed in 10Kg (nett weight) anti-static, anti-slip, heat sealed PE sacks. Bulk shipments are further packed in pallet boxes containing 15 sacks (150 kg nett) dimensions 1200 x 1100 x 800mm