



mbeads
High Index Glass Beads

mbeads™ clearview

microscopic high index glass beads in a range of micron sizes

mirror image

Viz Reflectives manufactures a range of plain clearview and metaview metalised high index glass beads. clearview glass beads offer excellent performance for Industrial and Retro-reflective Technologies.

area of application

High Index clearview glass beads are particularly used in exposed-lens-type retro-reflective systems such as the manufacture of retro-reflective materials such as reflective Tapes, Sheeting and Signage. Dependant on particle distribution used clearview beads can achieve high reflective values. Typical end use applications for clearview mbeads™.

- Reflective sheeting for road signs
- Reflective materials for safety garments
- Reflective inks for decoration
- Filler beads
- Reflective transfers for textiles

manufacturing capabilities

With over 3000 tonnes per annum production capacity of the clearview beads, we guarantee to meet the highest levels of demand. The manufacturing process utilises the latest technology, producing highly reflective clear glass beads in a wide range of micron sizes. Quality control is a key element in producing consistent batches and is controlled using ISO 9002. Due to the configuration of the manufacturing plant clearview beads can be manufactured to meet customer's specific requirements.



retro-reflective effect of car headlights on a clearview mbead™



retro-reflective effect of car headlights on M-Lite™ reflective sheeting



it's all in the detail

With the use of Laser Analysers mbead customers can have full test reports on samples giving data on particle distribution and mean sizes. Chemical treatments are available to improve reflection, adhesion and performance for specific products.

mbeads™ clearview specification

| Refractive Index | | Standard Micron Sizes | | | | | Roundness |
|--|------------|--|-----------|-----------|-----------|--------------|-----------|
| 1.9 - 1.93 | 2.1 - 2.23 | 30 - 90µ | 30 - 40µ | 40 - 50µ | 50 - 70µ | 70 - 90µ | >95% |
| Standard Mesh Sizes | | | | | | | |
| 170 - 200 | 200 - 230 | 230 - 250 | 250 - 270 | 270 - 300 | 300 - 325 | | |
| 325 - 350 | 350 - 375 | 375 - 400 | 400 - 425 | 425 - 450 | | | |
| Composition | | % By Weight | | | | Transparency | |
| BaO - SiO ₂ - TiO ₂ | | TiO ₂ 30-33% BaO 45-55% SiO ₂ 12-15% | | | | 90 - 100% | |
| Titanium dioxide & Barium Carbonate & Silica | | | | | | | |
| Specific Gravity | | Colour Analysis | | | | Packaging | |
| 4.2 | | White, Light Yellow | | | | 25 KG Tub | |

For further information see the Material Data Safety Sheet.