

Optical Data Sheet KHDS-06

 SUMITOMO METAL MINING CO., LTD.

IR-Shielding Dispersion Powder

Grade : KHDS-06

<Composition>

| Material | wt% |
|-----------------------------------|------|
| Lanthanum hexaboride | 21.5 |
| Zirconium dioxide | 26.0 |
| Organic dispersing agent / Others | 52.5 |

Optical measurement procedure

<Preparation of IR-Shielding PC Plates>

Master-Batch pellets are manufactured from a mixture composed of 1.26wt% KHDS-06 powder and 98.74wt% clear polycarbonate powder by melting at 290°C.

One part Master-Batch pellets are mixed with 74 parts clear polycarbonate pellets, and coextruded at 290°C in an extruder to be cast into PC plates of 2mm and 3mm thickness.

Optical properties

| Thickness(mm) | VLT / % | ST / % | Haze / % |
|---------------|---------|--------|----------|
| 3 | 69.8 | 46.4 | 1.4 |
| 2 | 76.2 | 56.8 | 1.2 |

VLT: Visible light transmittance, ST: solar transmittance

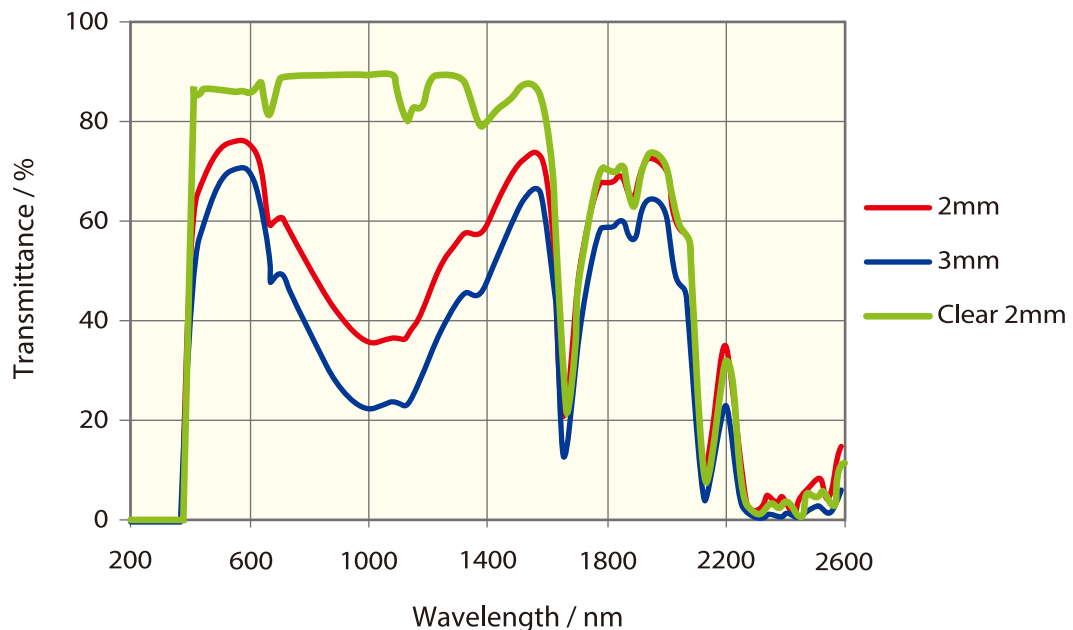


Fig.1 Transmittance profiles of polycarbonate plates using KHDS-06

Contact

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