

Optical Data Sheet FMDS-874

SUMITOMO METAL MINING CO., LTD.

IR-Shielding Dispersion Powder

Grade : FMDS-874

<Composition>

Material	wt%
Antimony-doped tin oxide	25.0
Organic dispersing agent / Others	75.0

Optical measurement procedure

<Preparation of IR-Shielding PC Plates>

Master-Batch pellets are manufactured from a mixture composed of 6.0wt% FMDS-874 powder and 94.0wt% clear polycarbonate powder by melting at 290°C.

One part Master-Batch pellets are mixed with 17 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	70.4	54.4	1.4
2	76.1	61.8	1.2

VLT: Visible light transmittance, ST: solar transmittance

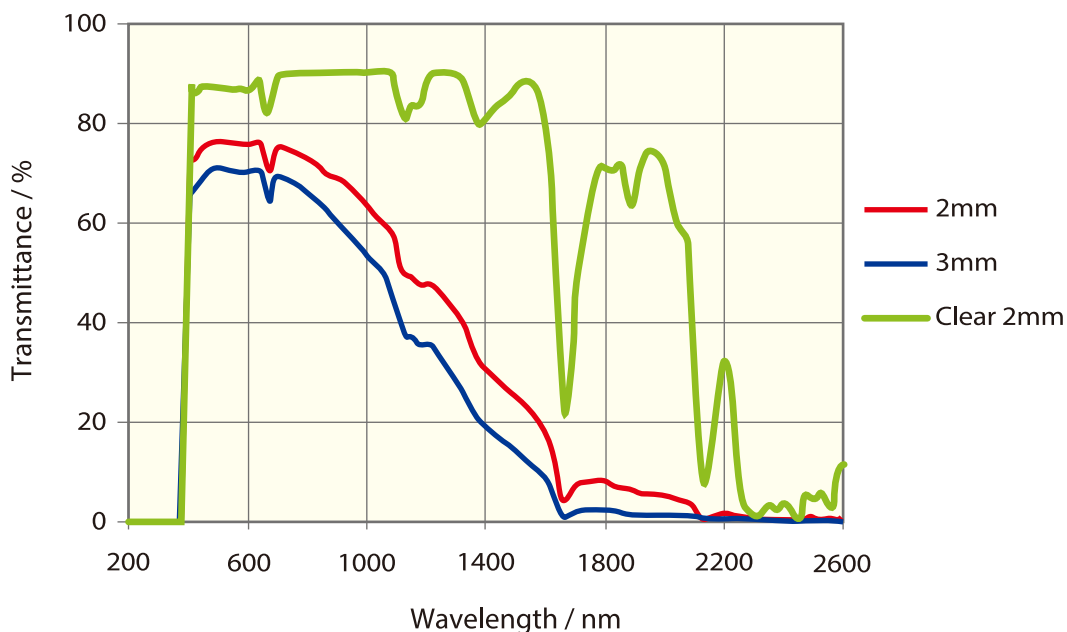


Fig.1 Transmittance profiles of polycarbonate plates using FMDS-874

Contact

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