Optical Data Sheet YMF-02A

SUMITOMO METAL MINING CO., LTD.

IR-Shielding Dispersion Liquid / Grade : YMF-02A

<Composition>

Material	wt%
Cesium tungsten oxide	18.5
MIBK / Others	81.5

Optical measurement procedure

<Preparation of coating solution>

Material	pts.wt
YMF-02A	200
UV-setting resin (oligomer 100%)	100

<PET films coating>
Coating method : Wire-bar coating
Substrate : 50 μm thick PET films
Drying : 70℃, 60 sec.
UV illumination : High pressure mercury lamp, UV Intensity 110 mW/cm², Belt speed 3 m/min., Total UV energy 259 mJ/cm²

Optical properties

Bar No.	UVT/%	VLT/%	ST/%	L*	a*	b*	Haze/%
6	40.8	73.2	40.2	88.7	-4.49	-3.64	0.8
10	34.6	68.5	34.7	86.5	-5.79	-5.02	0.8
16	22.5	57.1	26.1	80.6	-8.88	-8.34	0.8

UVT: UV transmittance, VLT: visible light transmittance, ST: solar transmittance, L*, a*, b* : CIE 1976 L* a* b* color space (D65, 10 deg, field).

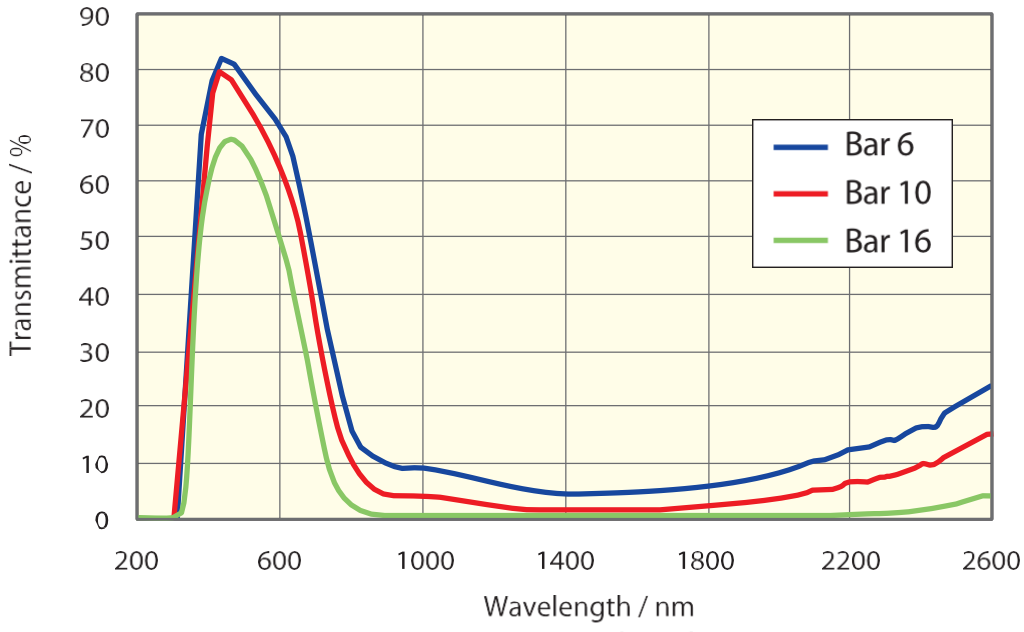


Fig.1 Transmittance Profiles of YMF-02A