

UV-curable Nanoparticle Dispersion 「UVH-D-series」

Characteristics

- The particle dispersions give various functions by mixing with UV-Curable materials.
- The particle dispersions can be mixed with various materials because of their high solubility and high transparency.
- Due to UV-cure type materials, mixture compositions don't lose their performance.

Product Lineup

Product	UVH-D-ZR	UVH-D-ZN	UVH-D-TI	UVH-D-ATO
Particle	ZrO ₂	ZnO	TiO ₂	Sb doped SnO ₂
Characteristics	High refractive index	UV Cut	High refractive index UV Cut	Anti static Near-IR Cut
Non-volatile Content(%)	26	30	13	26
Solvent	MIBK*1	MIBK*1	MIBK*1	MIBK*1
Thickness (μm)	3-4	3-4	3-4	3-4
Total Light Transmittance(%)	98	98	98	85
Haze(%)	0.3	0.5	0.4	0.1
Pencil Hardness	3H	3H	3H	3H
Refractive Index	1.73	1.57	1.90	1.62
Surface Resistance(Ω/□)	—	—	—	10 ⁷

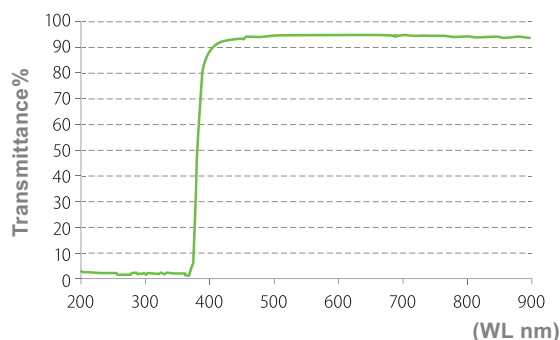
*1 : MIBK=Methyl Isobutyl Ketone

☆Base : Glass

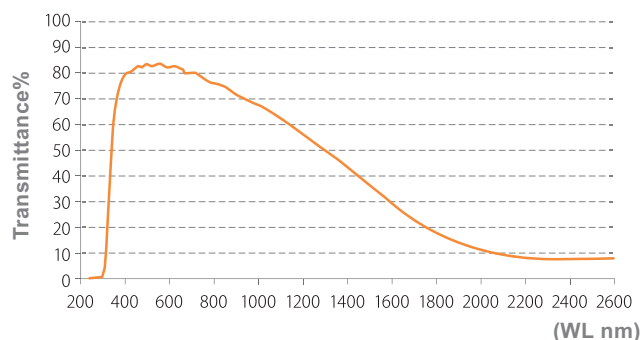
Irradiation : High-pressure mercury lamp 500mJ / cm²

Drying Condition : 80℃, 5min

UV Cut of UVH-D-ZN



Near-IR Cut of UVH-D-ATO



HARIMA CHEMICALS, INC. Tokyo Head Office and Sales Office

5F, Nihonbashi Sakuradori Bldg., 3-8-4 Nihonbashi, Chuo-ku, Tokyo, 103-0027, Japan

TEL: +81-3-5205-3033 FAX: +81-3-5205-3049

E-mail: tachibana-e@harima.co.jp

