

# SHIKOH™ UT-6373

## UV-Curable Resin (Urethane Acrylate Type)

### Characteristics

- Soft-elastic material, high elongation
- Low viscosity
- Non-yellowing
- Good compability

Material Properties	
Product	UT-6373
Appearance	Light yellow, clear liquid
Hardening Ingredient (%)	100
Viscosity (mPA·s/60 °C)	1,000-2,000

UV-cured Film Properties		
Pencil Hardness		6B>
Tensile Properties	Modulus (N/mm <sup>2</sup> )	4
	Tensile Strength (N/mm <sup>2</sup> )	5
	Elongation (%)	160
Tg (°C)		-65

Monomer Compatibility	
Acryloyl morpholine	Soluble
Phenoxy ethyl acrylate	Soluble
Isobornyl acrylate	Soluble
Isodecyl acrylate	Soluble

Oligomer/Monomer mixture by 20/80

<UV irradiation condition>

[Substrate] Surface treated PET film (125µm)

(For pencil hardness)

[Formulation] Oligomer/Irgacure 184 (Supplied by BASF)/Solvent (EAC) = 100/4/150 (wt ratio)

[Coating condition] Coated with bar coater, dried at 60 degree Celsius for 3 minutes. Thickness; 10µm

(For the other tests)

[Formulation] Oligomer/Irgacure 184 (Supplied by BASF)= 100/4 (wt ratio)

[Coating condition] Coated with applicator. Thickness; 100µm

[UV irradiation condition] 80W/cm(High-pressure mercury lamp), 18cmHx3.4 m/minx2Pass under air (800 mJ/cm<sup>2</sup>)

<Properties>

[Pencil hardness] Complied with JIS K-5600 (on PET film)

[Tensile test] 23 degree C x 50%RH, Test sample; Strip specimen (15 mm width, 25 mm length)

Tensile rate; 10 mm/min, Modulus; Calculated by strength and elongation at 1 %

[Glass transition temperature] Measured by TMA

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