

SHIKOH™ UV-3640 PE80

SHIKOH™ UV-3640 PE80 is aliphatic urethane acrylate, which can be used for UV-curing pressure sensitive adhesives.

[Features]

- ✓ High adhesion for pressure sensitive adhesives
- ✓ Non-solvent (100% hardening ingredient)
- ✓ Comparatively high viscosity
- ✓ Diluted in phenoxy ethyl acrylate (oligomer/ phenoxy ethyl acrylate = 80/20 wt%)

[General properties] *

Measurement item	UV-3640 PE80
Appearance	Slightly yellow, clear viscous liquid
Hardening ingredient (%)	100
Viscosity at 60 degree C (mPa·s)	30,000 – 70,000
Remaining NCO (%)	Less or equal 0.2

*This is not standard data but reference data.

[Characteristics]

Tested formulation of adhesive

Contents	Parts by weight	Note
UV-3640 PE80**	100	
Phenoxy ethyl acrylate	45	
Irgacure 184	5.8	BASF SE

**SHIKOH™ does NOT contain photoinitiator.

Adhesive characteristics

Adhesion Strength (N/25mm)	Ball Tack (No.)	Holding Power (mm)	
		40 degree C	80 degree C
12.4	13	N.C.	N.C.

[Testing Conditions]

Film: PET film (50 μm)
 Coated thickness: 25 μm (dry)
 UV irradiating condition: 80 W/cm (High-pressure mercury lamp),
 13 cmH × 1.5 m/min × 3 pass over releasing film (25 μm) (3,000 mJ/cm²)
 180 angular degree peel on SUS, 300 mm/min, 23 degree C × 50% RH
 Adhesion: J.Dow method, 30 angular degree, 23 degree C × 50% RH
 Ball Tack: J.Dow method, 30 angular degree, 23 degree C × 50% RH
 Holding Power: On SUS, 25×25 mm, 40 (or 80) degree C × 1 kg, 1,440 min.

[Precautions]

Caution should be taken to avoid contact with skin and eyes and clothing. In case of contact with skin, immediately wash with soap and water.

[Storage Information]

SHIKOH™ urethane acrylate oligomers should be stored at temperatures below 35 degree C, should be kept away from direct sunlight or fire and other such conditions as polymerization reaction is caused by.

Storage should be in epoxy coating steel containers. Headspace should be present in storage cans to support the oxygen requirements of the inhibitors, which have been added to enhance storage life.

These products should be used within six months of receipt for optimum results.

*The data herein is the typical value according to our measurements, does not mean standard.



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