



NICHIGO-UV SHIKOH UT-4619 (Trial Grade)

2009/10

The Nippon Synthetic Chemical Industry Co., Ltd. Central Research Laboratory Specialty Creative Center

SHIKOH UT-4619 is UV-curable metal adhesion coating based on urethane acrylate oligomer, which has features as follows.

[Features]

Excellent adhesion to Al substrate Good moisture resistance Good boiling water resistance Relatively good balance of hardness and flexibility

[General properties]

Measurement item	UT-4619	
Appearance	Light yellow liquid	
Resin content (%)	60	
Solvent content (%)	40	
Solvent (Wt ratio)	Toluene/AcOBt = $71/29$	
Viscosity at 20 (mPa•s)	1,000 ~ 3,000	
Remaining NCO (%)	0.2	

* Data of Lot. 0901K01

[Characteristics]

Solvents

Irgacure 184

Measurement item		UT-4619	
Pencil hardness			
On Al substrate		Н	
Adhesive test			
On Al substrate			
Before boiling water test		100/100	
After boiling water test		100/100	
On SUS304/SUS304B	A substrate		
Before boiling water test		100/100	
After boiling water test		100/100	
Flexibility			
On Al substrate			
Bending (90 degree	s)		
		Good	
Tested Formulation			
Contents	Parts by weight	Note	
UT-4619	66.7		

33.3

1.6

AcOBt

Ciba Specialty Chemicals Inc.





NIPPON GOHSEI

Coated with bar-coater No.24 on Al /SUS plate (Film thickness: 10 µ m) Al substrate: A1050P, JISH4000, 0.3 × 70 × 150mm Drying condition: 90 × 3min UV irradiating condition: 80W/cm(High Voltage Mercury Lamp) 18cmH × 5.1m/min × 2pass under air (450mJ/cm²) Pencil hardness:Compiled with JIS K5600-5-4 (load: 750g) Adhesive test: 1mm-Cross cut (Method of tape peel, Compiled with JIS K5600-5-6) Boiling water test: Put in boiling water for 1 hour Flexibility: Bent at 90 degrees

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

[Precautions]

Caution should be taken to avoid contact with skin and eyes and clothes by wearing protective equipments. 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 , and should be kept away from direct sunlight or fire and other conditions such as polymerization reaction is caused by.

Storage should be in epoxy coating steel containers. Head space 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 6 months after received for optimum results.