

Technical Data Sheet



CHONSiS Inc.

CHONSiS CU1830 Adhesive

1. INTRODUCTION

The CU1830 is a UV curable acrylate adhesive resin product that has a excellent adhesion performance, shear property and excellent durability without any yellowing & other color change phenomena against severe environmental conditions as varied by temperature, humidity, sun light and organic solvents. This product is rightly cured by a sufficient amount of UV light and good to make an transparent adhesive tape.

2. APPLICATIONS

Applications as functional pressure sensitive adhesive tapes requiring superb adhesion & cohesion performance , good transparency and fine dimensional stability without any performance decrease and apperance change.

3. FEATURES

Fully cured by UV irradiation that can be intentionally controlled molecular weight and crosslinkging degree.

4. TYPICAL PROPERTIES

TEST	UNIT	RESULT
Appearance	-	Clear, Colorless
Viscosity (25℃)	cps	1500±500
Haze	%	<0.8
Peel adhesion*(180 degree; normal)	gf/25mm	2,000

*Peel adhesion : PSA thickness 100 μ m at PET film 50 μ m, SUS304 substarte (Cure condition :UV A range 1,000mJ/cm² x 2)
The amount of UV energy required for right curing should be varied by UV profile as wavelength. intensity and line speed.

5. DESCRIPTION

This product is made from some functional acrylate monomers and contains 100% solid convertible parts that is suitable to get high, reliable adhesion & cohesion performance and excellent clarity without yellowing. It shall be applied as an single/ double coated adhesive tapes on conventional substrate carriers as film and the fully cured one provides quite reliable bonding performance for long term period at least 5 years with low hazeness. To get the target bonding performance without any unreacted ingredients, UV profile as intensity, total amount of irradiated UV enery and duration has to be optimized based on your UV facility. The lightly cured doesn't show any appearance change as yellowing and any adhesion & cohesion preformance decrease.

CHONSiS Inc.

27, Daegotseo-ro 234beon-gil, Daegot-myeon,Gimpo-si, Gyeonggi-do,10043, Republic of Korea.
Tel : 82-31-998-2803

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6. HOW TO USE

Coating thickness is the most important parameter to decide the total amount of UV energy. For right curing, UV intensity profile must be optimized by varying through increasing step by step. To get full curing without untreated part that can be the cause of VOC, after the sufficient polymerization, proper crosslinking by excess amount and higher intensity of UV irradiation energy is required to get an optimized performance.

7. POT LIFE

When it is opened and exposed to normal atmosphere contained air, it has to be used promptly. If it is unintentionally exposed to sun light, UV light or applied to certain degree of temperature, it can't be used. (Yellowing and partial gelation are one of representative phenomena of unnecessary side reaction.) Reuse of the product contacted to air is not recommended.

8. HANDLING PRECAUTIONS

ATTENTION: Container will have vapor and/or product residues when it is empty. All hazard precautions on label must be observed when handling empty containers.

DO NOT CUT OR WELD CONTAINERS. DO NOT REUSE CONTAINERS.

Product safety information(as MSDS) required for safe use is not included. Before handling, please read product and safety data sheets and container labels for safe use, physical and health hazard information. If you need Material Safety Data Sheet or other handling information, Please contact to CHONSiS Inc.

9. SHELF LIFE AND STORAGE

When it is stored in the original unopened container at RT(below 25°C) & mild humidity(below 60%) condition without sun, UV light and others, the general shelf life is 12 months from the date of production.

10. PACKAGING INFORMATION

Normal packaging size of the product : 18kg/pail, 180kg/drum and 1000kg/adhesive container

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