

# 延迟固化型胶粘剂 Delay curing type adhesives

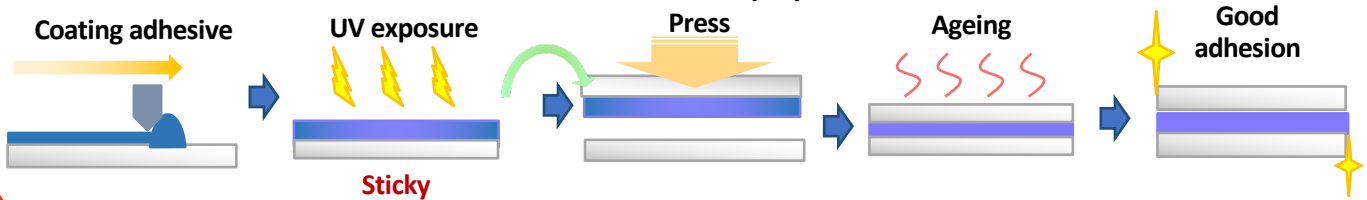
## 《Delay curing type》

○通过调整UV照射量可以控制反应速度

It can control curing speed according to UV exposure dose.

○对不透明的载体及材料背光部位的粘接有效

It is effective for the adhesion of the opaque materials and shade area.



ADEKA ARKLS		KRX-2200*1)	KRX-2204*1)
Viscosity(mPa · sec/25°C)		2500-4500	2000-4000
Solid content(%)		100%	100%
Properties of cured resin	Glass transition temperature (Tg)	35	105
	Linear expansivity	α1	110ppm
		α2	600ppm
Adhesive intensity (Shear strength、MPa)	glass	18	9
	PC	20	13

※1) Store in refrigerator thickness of adhesive:50μm

Curing Conditions:High-pressure mercury lamp 70mW(365nm), 2000mJ/cm<sup>2</sup> 150°C1h

## UV涂布树脂 UV Coating Resins

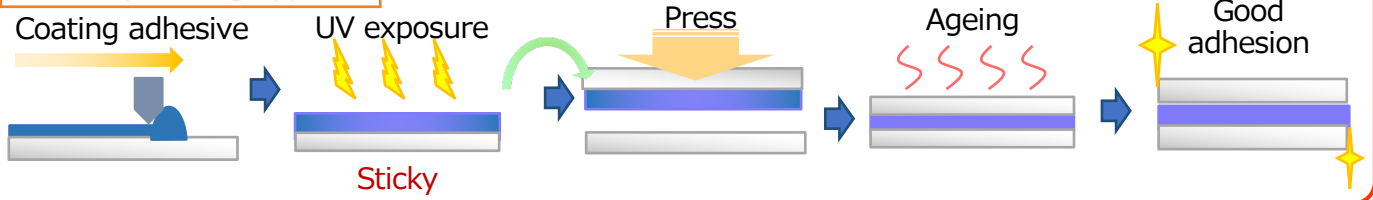
ADEKA ARKLS		KRX-2700	KRX-2702	KRX-2711
Features		Recoatibility, Scratch resistant	UV cut	High extensibility
Resin properties	Solid content	50% (PGM/PropylAcetate)	50% (Acetic acid propyl / PGM)	30% (PGM/MEK)
	Viscosity (mPa · sec/25°C)	3-10	3-10	50-80
Recommended curing condition		Dry:80°C 1min UV:300mJ/cm <sup>2</sup>	UV:500-1000mJ/cm <sup>2</sup>	Dry:80°C 1min UV:500mJ/cm <sup>2</sup>
		5-7μm	7-10μm	5-7μm
Properties of cured resin ※A	HAZE	0	-	0.7
	Total transmittance	92.0%	91.0%	91%
	YI	0.4	0.3	0.8
	Pencil hardness	3H	2H	F-H
	Steel wool resistance	ΔHAZE=0 (No Scratch)	ΔHAZE=0 (No Scratch)	-
	Extensibility	-	-	80-90%
	Curl (mm)	30-40	3-4	1-2

Coating condition Base film : A4300(TOYOBO)100 μm PET fiilm

Coating condition : bar coating Pencil hardness : 750g

# 延迟固化型胶粘剂 (365LED) Delay curing type adhesives

« Delay curing type »



○PostBake的温度可使用80℃。 It can be used at postbaking temperature of 80 °C.

ADEKA ARKLS		KRX-3293 <sup>*1</sup>
Viscosity(mPa·sec/25°C)		2000-6000
Solid content(%)		100
Tg(°C)		55
Linear expansivity(a1/a2, ppm)		100/190
Adhesive intensity (MPa)	LCP	5
	PEI	8
	PES	12
	PC	3
	COP(corona)	4
	PBT	5
	SUS	16
	PPS	6
	Al	13

※1) Store in Freezer

thickness of adhesive:100µm

Curing Conditions:LED lamp(365nm), 400mJ/cm2 80°C1h

Adhesive intensity: compression shear strength

## 电子部品用UV胶粘剂 (UV固化+热固化) Adhesive for Electronic Parts

○对各种基材都具有良好的粘接力。 It has good adhesion to various substrates.

ADEKA ARKLS		KRX-3248 <sup>*1)</sup>
Viscosity(Pa · sec/25°C)		10-15
Tg(°C)		115
Linear expansivity(a1/a2, ppm)		90/150
Adhesive intensity (MPa)	SUS	31
	PBT	13
	PPS	5
	Al	33
	LCP	10
	PC	6
	PES	10
	PEI	12

※1) Store in refrigerator

thickness of adhesive:180µm

Curing Conditions:LED lamp(365nm), 500mJ/cm2 150°C1h

Adhesive intensity: compression shear strength

## 电子部品用UV胶粘剂(365LED) Adhesive for Electronic Parts

○ 仅能够使用UV固化。It can only be used with UV curing.

ADEKA ARKLS		KRX-3294* <sup>1</sup>	KRX-3291
粘度(mPa·s/25℃)		2000-4000	2000-4000
固含量(%)		100	100
Tg(℃)		70	140
粘接力 (MPa)	COP/LCP	2	3
	COP/PC	8	6
	COP/Al	2	3
	COP/PBT	4	5
	COP/SUS	9	7
	COP/PPS	2	3
	COP/PPE	3	5

※1) Store in Freezer

thickness of adhesive: 180μm

Curing Conditions: LED lamp(365nm), 3000mJ/cm<sup>2</sup>

Adhesive intensity: tensile shear strength

## 光学膜材用UV胶粘剂 Adhesive Resin for Film(radical)

○ 可作为各种光学膜材的的胶粘剂使用。It can be used for various optical film adhesives.



ADKEA ARKLS		KRX-3308	KRX-3311	KRX-2184
Features		cation	cation/radical	radical
Resin properties	Solid content(%)		100%	
	Viscosity (mPa·sec/25℃)	80-120	40-80	150-200
Tg(℃)		100	60	90
Adhesive intensity (90°peel N/25mm)	COP(corona)	destruction	1-2	6-9
	P-TAC(corona)	3-4	1-2	10-15
	PET	<1	1-2	10-15
	Acryl	<1	2-3	8-13
	PI	<1	<1	8-13
	PC	<1	<1	5-8

thickness of adhesive: 3-5μm

Curing Conditions: Metal Halide lamp 500mJ/cm<sup>2</sup>

Adhesive intensity: 90°peel