

Photo-Curable Adhesive

ARONIX® UVX-6282

Features

- ① Solvent-free and low viscosity
- ② Good adhesion to various substrates
- ③ Useful for optical applications because of colorless transparency
- ④ Curable even by UV irradiation through UV absorbing substrates

Product Name	Viscosity	180° Peel Strength(N/inch) ¹⁾						Tg (°C)
	mPa·s (25°C)	PET	PMMA	PC	TAC	Polyimide	Glass	
UVX-6282	300	14	24	20	18	19	18	-4

1) Sample structure: PET(Adhesive Type)/UV Curable Adhesives(10-15µm)/ Various Substrates

PET(Adhesive Type): COSOMOSHINE® A4300 (TOYOBO, 50 µm)

Various Substrates

PET	: LUMIRROR® T-60	(TORAY, 50 µm, Non-Adhesive Type)
PMMA	: ACRYLITE® #001	(MITSUBISHI RAYON, 1mm)
PC	: IUPILON® NF-2000	(MITSUBISHI ENGINEERING-PLASTICS, 1mm)
TAC	: FUJITAC® TD 80UL	(FUJIFILM, 80 µm)
Polyimide	: KAPTON® 100EN	(DU PONT-TORAY, 25 µm)
Glass	: FLOAT GLASS	(NIPPON SHEET GLASS, 3mm)

Photo Curing Conditions: Metal Halide, 160W/cm, 1,000mJ/cm²(UV-A)

180° Peel Strength: 23°C, 200mm/min.



TOAGOSEI AMERICA Inc.

1450 West Main Street West Jefferson,
Ohio 43162

Tel : 614-879-9411

<https://aronalpha.net/>

hkato@toagosei.net



Hard coating agent

ARONIX[®] UVX-6524, 6392

Features

- Low viscosity and hard coat resistance than conventional non-solvent hard coating agent.

Example of applications

- Nanoimprint, UV curing hard coat for spray/inkjet printing

Grade		UVX-6524	UVX-6392
Features		Low viscosity	High Hardness
Viscosity (mPa·s, 25°C)		40	56
Refractive index (n_D^{25})	Before curing	1.484	1.479
	After curing	1.524	1.509
Pencil Hardness JIS K5600, 750gf	PET	3H	4H
	PC	F	F
	TAC	3H	3H
	PMMA	3H	4H
Adhesion JIS K5600	PET	Good	Good
	PC	Good	Good
	TAC	Good	Good
	PMMA	Good	Good(Corona treatment)
Scratch Resistance		OK	OK

*Release film / UVX(t=10 μ m) / Substrate film, *Metal-halide lamp, 250mW/cm², 1,000mJ/cm² (at 365nm)

*Substrate PET: COSMOSHINE[®] A4300 (TOYOBO, 100 μ m), PC : TEIJIN PANLITE[®]PC-2151(125 μ m)
TAC: FUJITAC[®]TD80UL (80 μ m), PMMA: KURARAY KURARITY[®]HI-50-75 (75 μ m)

*Scratch Resistance : Steel Wool: #0000, 500gf \times 100cycles、Substrate =PET



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