

EXCELOL 671-IP

Polyester modified acrylic polyol

EXCELOL 671-IP is a polyester modified acrylic polyol resin developed for screen inks.

It is a functional resin that combines the weather resistance and drying properties of acrylic with the adhesion of polyester, making it suitable as an ink binder for IMD.

Feature

1. High Tg design provides excellent heat resistance and drying properties.
2. Excellent adhesion (to various plastics and films).
3. It has excellent flexibility and can be used for embossed areas.
4. It can be crosslinked with polyisocyanates.
5. Suitable as a binder for screen inks.



Acrylic resin

Polyester Component

Application

Screen ink binder (for IMD and glass base material)

Property (Typical)

Item	Condition	EXCELOL 671-IP
Component	—	Polyester modified acrylic polyol
Tg(°C)	Calculated value	70
Non-volatile content(%)	150°C × 1h	40
Viscosity(mPa·s, 25°C)	BM type	16000
Hydroxyl Value(mgKOH/g)	Calculated value	8
Appearance	Visual	Pale yellow liquid
Solvent	—	Isophorone

Performance

Item		Condition	①	②
Main Agent	Product name	—	EXCELOL 671-IP	
	Product name	—	EXCELHARDENER X-03	EXCELHARDENER X-04
Hardener	Type	—	Polyisocyanate resin XDI type	Polyisocyanate resin XDI type
	NCO content(%)	—	11.5	19.2
	Solid content(%)	—	75	100
	Mixing ratio	NCO/OH=1.1	100/5.7	100/3.4
Adhesion	ABS	JIS K5600-5-6 Grid adhesion test (1mm × 1mm/grid, 100 grids in total) 100 is perfect.	100/100	100/100
	PC		100/100	100/100
	PMMA		100/100	100/100
	PET		100/100	100/100

Curing condition: 70°C × 1h → 23°C × 24h Drying thickness: 10μm

EXCELHARDENER X-03, X-04: Made by Asia Industry Co., Ltd.

X-03: Quick Dry, Adhesion XDI type

X-04: Quick Dry, Adhesion HDI type

Others

When handling this product, please read the Safety Data Sheet (SDS) and strictly follow the usage instructions and precautions.

This content may be changed without notice.