

Trust 7111

Di-functional Polyester Acrylates

INTRODUCTION

T-7111 resin is recommended specifically for photosensitive development and etching resist processes. It develops clearly and without residue. It can resist various strong acid etching liquids and weak alkaline corrosion. 100% solvent-free, suitable for printing and spraying processes. It dries quickly, has high hardness, and the surface is dry and non-adhesive. It can reach 2H hardness before UV curing, and has excellent adhesion to various metals, glass, and ceramics. After UV curing, the hardness, insulation, and etching resistance reach the optimal state before the etching process can be carried out. It is used for protective functions during metal marking, glass acid engraving, anodizing, electroplating and other processing.

TYPICAL VALUES

T _g (°C)	65
MW(GPC)	5500
Elongation at Break%	45
Colour, Gardner	3
Acid value,mg KOH/g	max. 90
Viscosity at 60°C,mPa.s	45000
Specific Gravity	1.12
Effective content	100%

APPLICATION

UV ink: full-page printing by screen printing, fast drying and non-stick to film. High resolution, clear development (20s development), 5% sodium hydroxide hot alkali to remove the film in 3-5 minutes.

UV coating: Spraying can be used when processing 3D curved glass, special-shaped metal sheets, and nameplates. The pigment has excellent wettability and can be colored. Has excellent adhesion properties to a variety of materials.

INTERMISCIBILITY

Monomer: It is miscible with all kinds of conventional monomers. It is recommended to use low functionality or Ethoxylated monomer is suitable to ensure the speed of development and film removal.

Solvent: When used as screen printing ink, it is recommended to use PMA propylene glycol methyl ether acetate as the solvent to ensure good solubility and low odor.

When spraying, BA butyl acetate or ethyl acetate can be used as the solvent to ensure a faster evaporation rate and reduce the drying temperature.

Polymer: Very compatible with polyester, epoxy, polyurethane, phosphate, and acrylate. It can also be matched with T-7112 and T-7113 photosensitive resin to meet the needs of formula adjustment.

Application with an appropriate amount of T-7133 resin can improve the chemical resistance and solvent resistance of photosensitive ink.

Paired with T-7110 resin, it can improve the development speed and film removal efficiency.

Packing: 20kg plastic drums , 200kg iron drums

More detailed application references and MSDS docket