

Trust 7130N

Di-functional Aliphatic Urethane Acrylates

两官能度聚氨酯丙烯酸酯

INTRODUCTION

T-7130N resin is recommended for use on surfaces of organic and inorganic materials that are difficult to adhere to, such as glass, ceramics, and metals. Its low acid value means no pretreatment is required for applications such as stainless steel, anodizing, water-based chrome plating, float glass, tempered glass, crystal glass, ITO conductive films, PCB circuit boards, and vacuum-plated metal topcoats. It not only exhibits excellent cross-cut adhesion but also strong scratch resistance. This is an improved version of T-7130 resin with enhanced water resistance, maintaining excellent toughness and adhesion even after vacuum evaporation or boiling. It can be directly applied to decorative coatings, vacuum coatings, inks, and adhesives on glass, ceramics, and various metal surfaces without the need for any additives.

TYPICAL VALUES

| | |
|---------------------------|--------|
| Tg(°C) | 45 |
| MW(GPC) | 3300 |
| Elongation at Break% | 30 |
| Colour, Gardner | 2 |
| Acid value,mg KOH/g | max. 3 |
| Viscosity at 25 °C, mPa.s | 1650 |
| Specific Gravity | 1.10 |
| Effective content | 100% |

APPLICATION

UV adhesive: T-7130N is a UV adhesive used in organic and inorganic materials such as glass and metal. It can provide ideal bond strength and water resistance, and has fast curing and low shrinkage.

UV Coatings: As the main resin for vacuum electroplating UV base coatings on glass packaging products, they possess excellent adhesion and water resistance.

UV Inks: Organic and inorganic UV screen printing inks, enhancing adhesion, with fast curing, suitable for formulations containing pigments and fillers. They have good temperature resistance and chemical resistance, recommended for UV printing applications on wine labels.

INTERMISCIBILITY

Monomer: In glass and metal vacuum coating applications, AM324 monomer is recommended due to its relatively low shrinkage, increased curing rate, and prevention of color bleeding and haziness in the coating.

In adhesive applications, to reduce the impact of high-functionality monomer volume shrinkage on adhesion, it can be used in combination with FM-350B monomer to ensure adhesion.

Polymer: It is highly compatible with polyesters, epoxy resins, polyurethanes, phosphate esters, and acrylates to meet formulation needs.

Trust 7210, a bifunctional polyurethane acrylate, can be used in combination to improve the adhesion between TPU electroplating primer and the electroplated layer.

Packing: 20kg plastic drums, 200kg metal drums

More detailed application references and MSDS are available upon request...