

## Trust 7132

### Di-functional Aliphatic Urethane Acrylates

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#### INTRODUCTION

T-7132 resin is recommended for use on inorganic materials such as glass, ceramics, and metals, offering both adhesion and toughness. No pretreatment is required for applications such as stainless steel, anodizing, aluminum alloys, ITO conductive films, PCB circuit boards, and vacuum plating. It not only boasts excellent cross-cut adhesion but also strong scratch resistance. It exhibits good resistance to both room temperature and boiling water, with low shrinkage. Its very high double bond conversion rate allows it to maintain 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)	10
MW(GPC)	2300
Elongation at Break%	40
Colour, Gardner	2
Acid value,mg KOH/g	max. 10
Viscosity at 25 °C ,mPa.s	18000
Specific Gravity	1.10
Effective content	100%

#### APPLICATION

UV Adhesives: T-7132 is a UV adhesive used on organic and inorganic materials such as glass and metal. It provides ideal bond strength and water resistance, has no irritating odor, and cures quickly with low shrinkage.

UV Coatings: As a coating for glass and metal surfaces, and a base resin for vacuum electroplating UV primers, it is a toughened version of 7128 resin, offering superior adhesion performance.

UV inks: Inorganic UV screen printing inks that enhance adhesion. Roller coating or offset printing inks for metal stamping, tested for resistance to boiling and impact toughness.

#### 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 iridescence and haziness in the coating.

For 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 7131 polyurethane acrylate, when used in combination, can improve water resistance and pigment wetting properties.

The coating will be fully cured by light curing at a UV energy of at least 800mJ. Iridescence and haziness will not occur during electroplating applications.

**packing: 20kg plastic bucket , 200kg drum**

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