

Trust 7088

Di-functional Aliphatic Urethane Acrylates

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INTRODUCTION

Applications: T-7088 resin is a tough, low-functionality, and fast-curing product. It is recommended for protective coatings requiring chemical resistance, offering low dielectric index, excellent insulation, and resistance to acids, alkalis, and electrolyte oxidation. It is flexurally resistant, scratch-resistant, abrasion-resistant, and has relatively low curing shrinkage. When paired with suitable monomers, it can be used in solvent-free spray coating processes for battery insulation protection, providing comprehensive protection.

TYPICAL VALUES

Tg(°C)	75
MW(GPC)	5500
Elongation at Break%	50
Colour/ Gardner	2
Acid value/mg KOH/g	max. 2
Viscosity at 60 °C/mPa.s	4500-8500
Specific Gravity	1.06
Effective content	100%

APPLICATION

UV coatings: Applied to power battery insulation protection coatings when paired with suitable monomers. As a plastic coating, PVC rolls offer high toughness, adhesion, and optimal protection.

Surface coatings requiring high toughness and chemical resistance.

UV inks: Suitable for LED low-energy curing film roll printing inks, improving chemical resistance.

INTERMISCIBILITY

Monomers: Miscible with various conventional monomers. When used as a coil coating, AM-313 (CTFA monomer) is recommended. AM-315 (IBOA) can reduce shrinkage and maintain toughness.

Additives: AM-330 phosphate esters and acrylates are recommended to improve metal adhesion. MP-321 can improve resistance to boiling in wet water.

Solvents: Miscible with esters, ketones, or aromatic solvents. Insoluble in single alcohol solvents, but soluble in mixed solvents containing alcohols and ethers.

Polymers: Highly compatible with polyesters, epoxy resins, polyurethanes, phosphate esters, and acrylates to meet formulation needs.

packing: 20kg plastic bucket , 200kg drum

More detailed application references and MSDS are available upon request.