

Trust 6603

High refractive acrylate resin

高折光丙烯酸酯树脂

INTRODUCTION

T-6603 resin is a high-refractive-index modified acrylate UV resin that offers strength, low shrinkage, fast curing, and resistance to high temperatures, high humidity, and thermal shock. As a main component, the resin is used in optical lens bonding, optical film printing, optical fiber coating, and 3D printing of optical modules.

TYPICAL VALUES

Tg(°C)	20
MW(GPC)	4500
Refractive	1.637
Colour, Gardner	1
Acid value,mg KOH/g	max. 2
Viscosity at 25°C, mPa.s	35000-50000
Specific Gravity	1.10

APPLICATION

UV ink:

T-6603 resin is recommended for optical functional films, suitable for lower film thicknesses and more sophisticated printing patterns. The coating is colorless, highly transparent, has a high refractive index, and offers minimal shrinkage. Cured films exhibit no warping or curling.

UV adhesive:

Used for more precise optical lens bonding and optical film composite bonding, it offers excellent toughness and long-lasting stability under dual 85° conditions.

INTERMISCIBILITY

Monomer: For surface coatings, high-refractive-index monomers such as OPPEA are recommended. For LED light source surface printing, using a mercapto monomer (Thiol-80) can increase curing speed. For adhesive applications, monomers such as VM-3540 and VM-3530 vinyl ether are recommended to promote adhesion.

Solvent: It is miscible with esters, ketones, or aromatic hydrocarbon solvents. It cannot be dissolved in a single alcohol solvent, but is soluble in mixed solvents containing alcohols and ethers.

Polymer: It can be well miscible with polyester, epoxy, polyurethane, phosphate ester, and acrylate to meet the needs of formula formulation.

packing: 20kg plastic barrel, 200kg drum

更详尽的应用参考资料及MSDS备索……