

## TR-1645

Thermo-cured High Refractive Index Optical Resin

热固化高折射率光学树脂

### INTRODUCTION

Applications: TR-1645 is a high-refractive-index thermosetting optical resin with optimal optical properties. It is applied to the surfaces of PET, acrylic, glass, and other materials to create excellent optical effects. It exhibits high resistance to acids, alkalis, and chemicals, and is suitable for screen printing, transfer printing, curtain coating, roller coating, spin coating, and other application methods on flat, round, and irregularly shaped parts. With suitable curing agents, it can air dry at room temperature or be baked at high temperatures. It can be stored as a single component or in dual-component systems, offering flexible application options.

### TYPICAL VALUES

Appearance	transparent liquid
Effective content	38-40%
Viscosity at 25℃, mPa.s	100-300
OH Mg KOH/g	20
Solvent (wt%)	60
Relative Density	0.95
Refractive Index	1.645 (固化后)

### APPLICATION

**Coatings:** Optical coatings! Suitable for micron and nano-scale coatings requiring low film thickness and high refractive index!

**Inks:** Suitable for screen printing, transfer printing, molding, and other optical grating forming processes, producing fine patterns and excellent imaging effects.

**Adhesives:** Electronic and electrical bonding with optical requirements. Excellent stability, capable of passing prolonged high temperature and humidity and thermal shock environmental tests.

### INTERMISCIBILITY

Applications: Recommended for use with high-refractive-index optical resins or nanoscale optical fillers to meet diverse industry requirements.

**Solvents:** Miscible with esters, ketones, alcohol ethers, and aromatic solvents.

**Curing Agents:** Can crosslink with amino resins and isocyanates.

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

**packing:** 20kg 塑料桶 200kg 铁桶

更详尽的应用参考资料及 MSDS 备索……