

Product Manual(TDS)

Urethane acrylate BW L844M

Product introduction

BW L844M is an aliphatic urethane acrylate designed for low-energy LED UV curing systems. It features low shrinkage, good balance between hardness and toughness, high transparency, and fast curing speed. This product is primarily used in nail polish extension layers, delivering excellent interlayer adhesion, remarkable hardness and toughness, and outstanding colloidal clarity with non-yellowing properties.

Product characteristics

Functional	2	Hardness	-
Active Ingredient (%)	100%	Proportion (25°C)	1.13
Appearance (25°C)	Transparent clear liquid	Shrinkage(%)	-
Viscosity (cps at 25°C)	13,000 - 23,000	Refractive Index(nd at 25°C)	1.49
Color (APHA)	≤ 60	Elongation At Break (%)	-
Acid Value (mg KOH/g)	≤ 1	Tensile Strength (MPa)	-

- Low heat release;
- Good toughness;
- Good transparency;
- Low shrinkage;

Applications

- It is used in LED UV nail polish extension gel, UV adhesive, UV 3D printing, and more.

Packaging

- In 20 kg plastic drums
- In 200 kg metal drums

Storage

- Store in a properly sealed container, away from sunlight and heat;
- At normal room temperature storage conditions, the product storage stability of at least 6 months;
- Low temperature or long-term storage, this product may form a false plastic layer;
- This rheological change can be restored by stirring or slight heating (up to 45°C);

It is especially suggested that the above data and suggestions are based on experimental data, but due to the uselessness of users, we can not provide any guarantee for the integrity and accuracy of the information.

We recommend that customers choose our products and adopt them. Determine their applicability before making our recommendations.

