

Technical Data Sheet:BW7850

Introduction	<p>BW7850 is a specially modified polyurethane UV dispersion. It exhibits excellent adhesion to a wide variety of substrates. It is solvent-free and contains no free monomers. It features fast curing speed, outstanding yellowing resistance, high abrasion resistance, high hardness, high gloss, water-boil resistance, and excellent fullness. It is particularly recommended as a resin for waterborne UV-curable high-gloss plastic topcoats and waterborne UV-curable wood high-gloss finishes. This product is compatible with both mercury lamp curing and LED curing, and is also suitable for coatings in other industrial fields.</p>	
Specification	Functionality(theoretical value)	8F
	Appearance (Visual inspection /25°C)	Milky white liquid
	Viscosity(cps/25°C)	< 1000
	Effective content(%)	48-54
	Fineness (µm)	≤15
	Average Particle Size (nm)	< 100
	pH (25°C)	6.5-8.5
Characteristic	*This data is for reference only. The product specifications to be followed shall be subject to the final released information.	
	Yellowing Resistance: Excellent; yellowing value (ΔE) < 1.2 after 168h aging test.	
	High Fullness: Superior surface build, comparable to solvent-based products.	
	High Hardness: No marks under 2H pencil hardness test (Mitsubishi Uni).	
	High Gloss: Maintains stable gloss levels within the 100-103° range.	
Application	Recommended for waterborne UV-curable glossy topcoats; also applicable for other coating sectors.	
Packaging	60kg per drum IBC	
Storage	Resin should be stored in a properly sealed container at 5-45°C. Under these conditions, the storage stability of this product is 6 months.	
Safety and Cautions	<ol style="list-style-type: none"> 1. Avoid contact with skin, eyes and clothing. Please wear protective gloves when operating. 2. In case of accidental contact with skin, eyes or clothing, please wash with soapy water (for eyes, rinse with plenty of water and seek medical attention). 3. For detailed instructions, please refer to the Material Safety Data Sheet (MSDS). 4. Each batch of goods must be inspected before being put into production. 	

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Notes:The technical data provided represent typical values only. Unless otherwise expressly agreed in writing, they should not be regarded as specifications or guaranteed values. Due to variations in formulations, production processes, and application conditions, all statements must be adjusted to the user's actual situation. Our company reserves the right to modify its products without prior notice.

