

# DUM-7100

## Insulation resin for Casting



DUM-7100 is a resin for casting used in the urethane curing system and features outstanding drying performance and exterior look. This product features superior thermal shock resistance and mechanical shock resistance and is suitable as molding liquid for car components. Also, it maintains elasticity even at low temperature which makes it suitable for components that require low noise.

### Usage

For casting electronic devices and car components

### Specification

Type of varnish	Two-component urethane resin		
Product Features	<ol style="list-style-type: none"><li>1. It features outstanding workability.</li><li>2. It is cured in natural conditions.</li><li>3. It features outstanding electrical properties.</li><li>4. It features outstanding thermal shock resistance.</li><li>5. It can be cured at low temperature as well as at room temperature.</li></ol>		
Thinner	None	Pot time (25 °C) (A + B)	Within 60 min.
Exterior	Black		
Viscosity	20 - 40 POISE	Curing conditions	25 °C x 24 hours or more / 60 - 80 °C x 1 - 2 hours
Specific gravity	1.22 ± 0.02	UL-certified	Not certified
Gel time (85°C)	Within 50 minutes	Storage conditions	Store in a shaded indoor space with sufficient ventilation.
Mixing ratio	A : B = 100 : 40 (Weight)	Shelf life	6 months from the manufacturing date (when storage conditions are met)

### Product Properties (Physical Property Data)

Breakdown voltage	Above 10 KV/mm
Volume resistivity	At least $1.0 \times 10^{13} \Omega\text{cm}$
Hardness	40 - 50 (SHORE-A)

### How to Use

How to Use	<ol style="list-style-type: none"><li>1. Mix evenly after adding the substances according to the designated mixing ratio.</li><li>2. Defoam with vacuum to eliminate air pockets.</li><li>3. Inject well-mixed epoxy to the substrate.</li><li>4. Dry according to the designated curing conditions.</li></ol>
Caution	<ol style="list-style-type: none"><li>1. Instructions above may vary depending on the type of substrate and the painting line conditions.</li><li>2. Liquid B is weak against moisture, so use the product quickly after opening it.</li><li>3. If the humidity is high, there is a possibility of exterior defect due to foaming during the curing.</li></ol> <p>So use the product in an indoor space where humidity can be controlled.</p> <ol style="list-style-type: none"><li>4. Please refer to the MSDS when handling the product.</li></ol>

► The data shown above were obtained under the laboratory conditions, and the product properties may vary depending on work method and circumstances. Please refer to the property data listed above only as reference.