

Product
Bulletin**U105**

A two-component closed cell designed for potting, encapsulation and molding parts.
10 to 11 lb. / ft.³ density.

GENERAL DESCRIPTION

U105 is a two-component closed cell urethane foaming system designed for potting, encapsulation and molding parts. The low viscosity and convenient 1:1 mix ration makes it readily suited for hand pour casting or machine dispensing. In addition, due to the excellent flow characteristics of this formulation, fine detail and intricate shapes can be reproduced consistently. The short de-molding time of 8-10 minutes also makes this unique foam ideal for rapid production rates.

U105 has a free rise density of approximately 11 lbs/ft³ and the molded foam density ranges from 18-22 lbs/ft³. The density obtained will vary depending on the mold temperature, mass and mold overloading.

U105 is characterized by high tensile and shear strength as well as outstanding impact and thermal shock resistance. U105 also exhibits excellent chemical, solvent and moisture resistance properties.

APPLICATION

1. By weight, mix equal parts resin to catalyst for 30-40 seconds, maximum.
2. Mechanical mixing is preferred over hand mixing.
3. Pour and allow to foam.
4. De-mold in 8-10 minutes.

SPECIFICATIONSHANDLING CHARACTERISTICS

Mix Ratio, Catalyst to Resin, by Weight: 1:1
Workable Pot Life, 100 g @ 25°C: 1 min.
Mixed Viscosity @ 25°C cps: 250
Recommended Cure: 8-10 min. @ room temp.
Color: Pink

PHYSICAL CHARACTERISTICS

Shrinkage Linear, in / in: N/A Foam
Hardness, Shore: N/A Foam
Specific Gravity, 25°C / 25°C: 1.23
Tensile Strength, psi: 60
Compressive Strength, psi: 60

THERMAL CHARACTERISTICS

Thermal Conductivity, btu / hr / ft² / °F / in: 0.3
Heat Distortion, °C: 125
Operating Temperature Range, °C: -50 to +150

STORAGE AND HANDLING

U105 contains a low volatility minimal toxic type reactive isocyanate. The following handling precautions should be observed: avoid contact with skin, eyes, or clothing. Avoid breathing vapors and use adequate ventilation. Wear protective clothing, gloves, and protective eyeglasses. In case of skin contact, flush with soap and water.

Since U105 is moisture sensitive, store in a cool dry area. Properly sealed and stored containers are stable for at least 6 months.