

Product
Bulletin

U104

Two-component closed cell urethane foam developed for potting, encapsulating, thermal insulation, flotation and molding parts. 3 lb. / ft.³ density.

GENERAL DESCRIPTION

U104 is a very low density two-component closed cell urethane foam developed for potting, encapsulation, thermal insulation, flotation and molding parts. U104 is a fluorocarbon blown, polyester type urethane foam system.

A convenient 1:1 mix ratio and a low viscosity makes U104 ideally suited for either hand pouring or machine dispensing. The uniform closed cell structure and excellent flow characteristics results in the reproduction of intricate shapes and fine detail.

U104 has a nominal free rise density of 2 lbs/ft³. The molded foam density will vary depending on the mold temperature, mass and mold overloading.

U104 exhibits outstanding thermal shock and impact resistance as well as high tensile and shear strength.

APPLICATION

1. By weight or volume, mix equal parts resin to catalyst for 15-20 seconds.
2. Mechanical mixing is preferred over hand mixing.
3. Pour and allow to foam.
4. De-mold in 10-12 minutes.

SPECIFICATIONS
HANDLING CHARACTERISTICS

Mix Ratio, Catalyst to Resin, by Weight: 1:1
Workable Pot Life, 100 g @ 25°C: 1 min.
Mixed Viscosity @ 25°C cps: < 1,000
Recommended Cure:
 _____ 10-12 min. @ room temp.
Color: Straw

PHYSICAL CHARACTERISTICS

<u>Shrinkage Linear:</u>	N/A	Foam
<u>Hardness, Shore:</u>	N/A	Foam
<u>Specific Gravity, 25°C / 25°C:</u>	1.20	
<u>Tensile Strength, psi:</u>	50	
<u>Compressive Strength, psi:</u>	40	

THERMAL CHARACTERISTICS

Thermal Conductivity, btu / hr / ft² / °F / in: 0.1
Heat Distortion, °C: 125
Operating Temperature Range, °C: -50 to +150

STORAGE AND HANDLING

U104 Resin contains a volatile fluorocarbon flowing agent and U104 Catalyst contains reactive isocyanate; consequently the following precautions should be observed. Avoid breathing vapors and use adequate ventilation. Wear protective clothing, gloves, and protective eyeglasses. In case of eye contact flush with water. In case of skin contact, wash with soap and water.

Since U104 is moisture sensitive, store in a cool dry area. Properly sealed and stored containers are stable for at least 6 months.