



TECHNICAL BULLETIN

POLYURETHANE RESIN

UTC-6022-7.5 FR FIRE-RATED

NON CFC OR HCFC CONTAINING URETHANE FOAM

DESCRIPTION:

UTC-6022-7.5 is a two-component, rigid, self-foaming and self-curing urethane foam system designed especially for molded parts. Nominal free rise density is 7.5 lbs/ft³.

FEATURES:

Improved liquid component compatibility, improved resistance to humidity during molding process. Readily handled by pour casting technique or machine pour using inexpensive molds. Exhibits excellent flow characteristics providing complete fill out of intricate shapes. Faithfully reproduces fine detail. Short demolding time of 7-10 minutes makes rapid production rates possible.

Molded foam density ranges depending upon mass, cavity temperature and amount of mold overloading. The molded foam exhibits good impact resistance and high tensile and shear strength and is particularly applicable where the finished product is to be nailed, screwed, stapled or dovetailed. The cured foam articles may be painted or stained for wood grain or other decorative effects.

WARNING:

Polyurethane products manufactured or produced from these chemicals may present a serious fire hazard if improperly used or allowed to remain exposed or unprotected. The character and magnitude of any such hazard will depend upon a broad range of factors which are controlled or influenced by the manufacturer, applicator, or production process by the mode of application or installation and usage of the particular end product.

Each person, firm, or corporation engaged in the manufacture, production, application, installation, or use of any polyurethane materials should carefully determine whether there is a potential fire hazard associated with such product in a specific usage, and utilize all appropriate precautionary and safety measures as outlined in local, state, and federal regulations governing the manufacture of products in the construction and/or renovation of commercial or residential structures.

Notice: *The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. We warrant that our products will meet our written specifications. Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness. Nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental, or consequential damages.*



APPLICATIONS:

Structural furniture parts, molded ornamental furniture trim, plaques, picture and mirror frames, moldings and the like, to replace carved wood, cast plaster, metal and other difficult to form or heavy materials.

CONSTANTS OF RESIN AND ISOCYANATE:

Property	A Component	B Component
Specific Gravity	1.22-1.24 (at 77°F)	1.10 (at 77°F)
Viscosity, cps	150-350 (at 77°F)	1000-1200 (at 77°F)
Clarity	Dark Brown	Amber
Approx. Wt./Gal.	10.28 lb.	9.20 lb.

FORMULATION RATIO IN PARTS BY WEIGHT:

A Component	100
B Component	100

HANDMIX REACTIVITY @ 77°F – COMPONENT TEMPERATURE:

**Cream Time	50" ±2"
**String Gel Time	2'30" ±10"
**Rise Time	4'30" ±10"
**Mold Dwell Time	10-15
Free Rise Core Density	7.0-7.5 pcf

**** This reactivity data is standardized and can be adjusted to suit customer's specifications**

FIRE HAZARD* CLASSIFICATION (ASTM-E84)

FOAM THICKNESS	FLAME SPREAD	FUEL CONTRIBUTION	SMOKE DEVELOPED
5 ½" width, 7/8" thick	20	0	225

** This numerical flame spread rating and all other test data are not intended to reflect hazards presented by this or any other material under actual fire conditions.*



HANDLING PRECAUTIONS:

UTC-6022-7.5FR A Component contains a reactive isocyanate of the low volatility, minimal toxicity type but is nevertheless classified as a toxic material. Avoid contact with skin, eyes, or clothing. Wear suitable protective clothing. Avoid breathing vapors. Foaming operations should be performed in a well ventilated area. Forced ventilation is recommended in confined areas to help keep vapors away from the workers. The use of a respirator is imperative in spraying operations. In the case of contact with eyes, wash with plenty of water and get immediate medical attention. Wash skin or clothing immediately with alcohol then with plenty of soap and water.

SPECIAL INSTRUCTIONS:

UTC-6022-7.5FR A and B Components should be protected from moisture contamination. For intermittent uses, the container or drum should be fitted with a dry air breather (9" pipe nipple filled with anhydrous calcium sulfate stopped on ends with cotton plugs and fitted into the vent bung). A storage temperature of 50-70°F is recommended.

Both materials, when properly stored, are stable for at least six months.