



TC-300 A/B

GENERAL PURPOSE RIGID POLYURETHANE FOAM

AVAILABLE DENSITIES: 2.5#, 6#, 10#, & 16# PER CUBIC FOOT

PRODUCT HIGHLIGHTS:

- ✓ Easy to hand or machine cast
- ✓ Flows well in mold cavities
- ✓ Fast Demolds
- ✓ Excellent physical properties

PRODUCT DESCRIPTION:

The TC-300 A/B series are rigid low modulus polyurethane foam systems that can be easily mixed with a high shear blade mixer or through foam dispensing units. This system provides good impact resistance with high flexural and shear strength. The good flow characteristics of the TC-300 A/B series allow intricate mold cavities to be easily filled. Demold time is short, 15-18 minutes or less. Cured parts can be nailed, stapled, and painted or stained within a short time after demolding.

TYPICAL PRODUCT USES:

- ✓ Structural furniture parts
- ✓ Ornamental trim
- ✓ Plaques and picture frames
- ✓ Insulation applications
- ✓ Composite structure applications
- ✓ Flotation applications
- ✓ Sculpture medium
- ✓ Movie props

PHYSICAL PROPERTIES: Based on a 10 pound per cubic foot molded sample

Compressive Strength, (psi) ASTM D-1621	330
Tensile Strength, (psi) ASTM D-1623	270
Flexural Strength, (psi) ASTM D-790-84A	460
Shear Strength, (psi) ASTM C-273-61	170
K Factor @ 77°F (25°C) ASTM C-177-85	0.02
Closed Cell Content, (%) ASTM D-2856.....	98
Water Vapor Transmission (per ms/in).....	0.8

HANDLING PROPERTIES:

Mix Ratio:

Part A 100 parts by weight
Part B 100 parts by weight

Viscosity, (cps) @ 77° F (25°C) Brookfield:

Part A 180-300
Part B 900-1200

Color:

Part A Dark Amber
Part B Clear

Specific Gravity (g/cc):

Part A 1.24
Part B 1.07*

*Part 'B' specific gravity may vary depending on density selected.

Cream Time 30-40 seconds

Gel Time 2-3 minutes

Tack Free Time 3-4 minutes

Demold Time 15-18 minutes

NOTE:

The 300 series is resistant to gasoline, oils, dilute acids and bases, and most unsaturated hydrocarbons. Recommended mold release is Challenge 90.

STORAGE:

Store in a cool dry place. Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at room temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING:

1 Gallon kits 8 lbs. A, 8 lbs. B
5 Gallon kits 40 lbs. A, 40 lbs. B
55-Gallon drum kits 480 lbs. A, 480 lbs. B

SAFETY PRECAUTIONS:

Use in a well-ventilated area. Avoid contact with skin using protective gloves and protective clothing. Repeated or prolonged contact on the skin may cause an allergic reaction. Eye protection is extremely important. Always use approved safety glasses or goggles when handling this product.

IF CONTACT OCCURS:

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Seek qualified medical attention if allergic reactions occur.

Eyes: Immediately flush with water for at least 15 minutes. Call a physician.

Ingestion: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

Refer to the Material Safety Data Sheet before using this product.

NON-WARRANTY "Except for a warranty that materials substantially comply with the data presented in Manufacturer's latest bulletin describing the product (the basis for this substantial compliance is to be determined by the standard quality control tests generally performed by Manufacturer), all materials are sold "AS IS" and without any warranty express or implied as to merchantability, fitness for a particular purpose, patent, trademark or copyright infringement, or as to any other matter. In no event shall Manufacturer's liability for damages exceed Manufacturer's sale price of the particular quantity with respect to which damages are claimed."