



TC-312 FR REV 2

FIRE RETARDANT RIGID POLYURETHANE FOAM 12# DENSITY

The TC-312 FR REV 2 polyurethane foam system is a rigid, fire retardant closed cell foam with a density of 12 lbs. per cubic foot. It can be easily mixed by hand in small batches using a rapid, vigorous mixing action or by using a Jiffy Mixer® in a drill to provide a high-shear mix in small to large quantities. For low to high production, this foam system can also be machine dispensed using BJB's Centerpointe Meter-Mix equipment. Cured parts can be sanded, stapled, painted or stained within a short time after demolding.

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Free Rise Cup Density (lb.)	—	12
Compressive Strength (psi)	ASTM D1621	485
Tensile Strength (psi)	ASTM D1623	425
Flexural Strength (psi)	ASTM D790	520
Shear Strength (psi)	ASTM C273	340
K Factor @ 77°F (25°C)	ASTM C518	0.295
Closed Cell Content (%)	ASTM D2856	98

HANDLING PROPERTIES	Part A	Part B
Mix Ratio by weight	100	100
Mix Ratio by volume	92	100
Specific Gravity @ 77°F (25°C)	1.23	1.127
Color	Brown	Pale Amber
Viscosity (cps) @ 77°F (25°C) Brookfield	250	750
Cream Time	45 – 50 seconds	
Gel Time	2.25 – 2.5 minutes	
Tack Free Time	3 – 4 minutes	
Demold Time	15 – 20 minutes	

Properties above are typical and not for specifications.

STORAGE:

Store at ambient temperatures, 65-80°F (18-27°C). Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at recommended temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING	Part A	Part B
Gallon Kits	8 lbs.	8 lbs.
5-Gallon Kits	40 lbs.	40 lbs.
Drum Kits	440 lbs.	440 lbs.

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. It is *not* recommended to remove resin from skin with solvents. Solvents only increase contact and dry skin. 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.



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Foam Video