



F-31 FR A/B

FIRE RETARDANT

30 SHORE A POLYURETHANE ELASTOMER

PRODUCT HIGHLIGHTS:

- 3 - 5 hour demold time
- Does not contain MOCA, MDA, or TDI
- Hand mixable and castable by simple weight ratio
- Passes the FAR 25.853 Flammability test

PRODUCT DESCRIPTION:

The F-31 FR A/B system is a production oriented fire retardant, fast gel/fast de-mold system. It features a work life which allows time to vacuum de-air and cast detailed or large parts by hand, or by use of metered dispense equipment.

TYPICAL PRODUCT USES:

- ◆ Shock absorbent bumpers and pads
- ◆ Potting and encapsulation
- ◆ Flexible urethane parts where fire retardancy is required
- ◆ Cable connector sealer

PHYSICAL PROPERTIES:

Hardness, Shore A ASTM D-2240	30 ± 5
Specific Gravity, (g/cc) cured ASTM D-792	1.11
Color/Appearance.....	Translucent Neutral
Tensile Strength, (psi) ASTM D-412	660
Elongation, (%) ASTM D-412	1515
Tear Strength, (pli) ASTM D-624	66
Shrinkage, (in./in.) linear ASTM D-2566	0.006

HANDLING PROPERTIES:

Mix Ratio (by weight):	
Part A.....	60 parts by weight
Part B.....	100 parts by weight
Mix Ratio (by volume):	
Part A.....	57 parts by volume
Part B.....	100 parts by volume
Specific Gravity (g/cc):	
Part A.....	1.12
Part B.....	1.07
Viscosity, (cps) @ 77°F (25°C) Brookfield:	
Part A.....	2,300
Part B.....	600
Mixed.....	1,300
Work Time, 100g mass @ 77°F (25°C).....	10 - 11 minutes
Gel Time.....	14 - 15 minutes
Demold Time @ 77°F (25°C).....	3 – 5 hours
Cure Schedule.....	Full cure in 3 - 5 days or post cure at 150°F (66°C) for 4 hours

STORAGE:

Store at room temperature in a dry place. Unopened containers will have a shelf life of 6 months, from date of shipment, when properly stored under normal conditions at 75°F (24°C). NOTE: The F-31 FR A/B component in liquid form will darken with age. Opened containers of material should be purged with dry nitrogen prior to replacing lids or caps to prevent moisture contamination.

PACKAGING:

1 Gallon kits.....	4.8 lbs. A, 8 lbs. B
5 Gallon kits.....	24 lbs. A, 40 lbs. B
55 Gallon kits.....	240 lbs. A, 400 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."