VOLATILEFREE INC
MANUFACTURERS OF HIGH PERFORMANCE POLYMERS

Data Sheet
VFI-160

CASTING URETHANE ELASTOMER SYSTEM

Description
VFI-160 is a unique moderate viscosity, low odor casting system designed for easy processing and rapid demolding. This system produces a medium-high hardness elastomer with good rebound properties.

Usage
VFI-160 has numerous application possibilities such as potting of mechanical parts to control vibration, poured in place supports for equipment, resilient furniture parts and low temperature flexible molds.

Color
Both the Iso and Poly are moderate viscosity fluids. The Iso is light amber in color and the Poly is transparent, semi-transparent or is colored to the customer's specification.

Physical Properties

Tensile
ASTM D-412

Strength:	1200 psi
Elongation:	1200%
Permanent Set:	25% max.

Hardness
ASTM D-2240

Shore A	60 + 2

Tear Resistance
ASTM D-624

Die C	200 pli

Shrinkage
0.5% - 1.0%
Depending upon cure temperature.

Abrasion Resistance
Excellent.

Liquid Component Properties

Solids

Weight:	100%
Volume:	100%

Viscosity
Poly Component:
975 ± 25 cps @ 77°F
Iso Component:
1800 - 2500 cps @ 77°F

Density
Poly Component:
8.9-9.3 lbs./gal. (S.G. 1.07-1.12)
Depending on color.
Iso Component:
9.06 lbs./gal. (S.G. 1.09)

V.O.C.
Contains no Volatile Organic Compounds.

Flash Point
ASTM D-56 (TCC)
Greater than 200°F.

Storage Stability
12 months in unopened containers at 50° - 90°F.

Application

Mixing

The above liquid component properties are for the standard product of 1 to 1 by volume mixing or 102 parts by weight of the isocyanate component to 100 parts polyol. Hand mix thoroughly for 30 seconds. Power mixing is mandatory for larger quantities (over ½ gallon).

Pot Life

Pot life is 4-5 minutes at room temperature. When gelation occurs, the clear mixture forms a translucent, white rubbery, compound.

Cure & Demold

VFI-160 will be slightly tacky for some time however, it can be demolded in approximately 5 times the pot life. Thin films applied to cold surfaces may require up to 4 hours to cure to a removable film strength. A faster curing product is available to meet needs for quicker cycling of molds. The material will reach maximum physical properties in 3 to 10 days.

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