

CASTING URETHANE ELASTOMER SYSTEM

■ Description

VFI-140 is a unique moderate viscosity, casting system designed for easy processing and rapid demolding. This system produces a low hardness elastomer with excellent rebound properties.

■ Usage

VFI-140 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: 550 psi
Elongation: 700%
Permanent Set: 35% max.

■ Hardness

ASTM D-2240
Shore A 40 + 2

■ Tear Resistance

ASTM D-624
Die C 150 pli

■ Shrinkage

0.5% - 1.0%
Depending upon cure temperature.

■ Abrasion Resistance

Excellent.

Liquid Component Properties

■ Solids

Weight: 100%
Volume: 100%

■ Viscosity

Poly Component:
900-1100 cps @ 77°F
Iso Component:
2000-2500 cps @ 77°F

■ Density

Poly Component:
8.75-9.3 lbs./gal. (S.G. 1.07-1.12)
Depending on color.
Iso Component:
9.07 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 @ 50° - 90°F.

Application

■ Mixing

The above liquid component properties are for the standard product of 1 to 1 by volume mixing or 104 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-140 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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