

VFI®-2095 95 A POLYURETHANE CASTING ELASTOMER

VFI-2095 95 A Polyurethane Casting Elastomer is a versatile, two-component urethane liquid. It is pourable, and once cured, becomes a semi-rigid thermoset elastomer. With an extended pot life and elevated properties, it offers clean, bubble-free castings in a variety of applications. It is a low free TDI, MOCA free blend with no HMDI.

- Extended work time to create castings with precision
- Highly durable, versatile urethane with good rebound properties
- Clean, bubble-free castings when vacuum degassed
- Low free TDI, MOCA free blend with no HMDI
- 2A:1B mix ratio by volume for easy mixing and pouring

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULTS
Hardness Shore A	ASTM D2240	95 A
Tensile Strength	ASTM D412	1,300 psi
Elongation	ASTM D412	450%
Tear Strength	ASTM D624	320 pli

LIQUID PROPERTIES	TEST METHOD	TEST RESULTS
Specific Volume	N/A	25.53 in ³ /lb
Mixed Liquid Density	ASTM D2939	9.05 lbs/gal
Mixed Specific Gravity	N/A	1.086 g/mL
Ratio by Volume (A:B)	N/A	2A:1B
Ratio by Weight (A:B)	N/A	103A:50B
Mixed Solids by Volume	ASTM D2697	100%
Viscosity A Side	ASTM D2196	2,750 cps
Viscosity B Side	ASTM D2196	1,900 cps
Mixed Viscosity	N/A	2,400 cps
Pot Life	N/A	23 mins

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

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THICKNESS REQUIREMENTS

For pours thinner than 50 mils, the material must be heated in an oven at 150°F to obtain full properties.

MOLD PREPARATION

The mold must be clean and free of oils, dirt, or debris. All surfaces in contact with VFI-2095 must be sealed and coated with a release agent to prevent unwanted adhesion when demolding. Applying a release agent helps protect and prolong the life of the mold. Compatible molds for casting include urethane, metal, and platinum silicone when properly prepared. You may heat the mold between 70°F - 150°F to accelerate the curing process and achieve a quicker demold. However, heating the mold will shorten the material's pot life.

MIXING

Mixing until uniform is required on all material before use. The A side must be premixed before adding the B side to the A side container to mix until uniform. Mix times may vary depending on volume and mixing method. To obtain optimal properties, vacuum degassing the product is necessary after mixing.

POST-CURE

Thinner pours will need more time to cure to develop the necessary green strength to demold. VFI-2095 will reach full physical properties after 7 days. To achieve final properties faster, the material can be post-cured in an oven at 150°F for 16 hours.

STORAGE/SHELF LIFE

Store in a clean, dry building between 60°F - 90°F. The shelf life is 12 months from date of manufacture when stored and sealed in unopened containers. If storing after opening, the material can be resealed with a nitrogen purge. The material should be brought to a minimum temperature of 65°F before use.

PRECAUTIONS

This product contains isocyanate, which is irritating to the skin and is toxic if inhaled as particulate matter. Avoid prolonged breathing of vapors and repeated skin contact. Use only with adequate ventilation. Do not thin or add any foreign material to this product. See Safety Data Sheet for complete safety data.