



Freeman 1040 Flexible Polyurethane Elastomer

Description

Freeman 1040 is a flexible urethane casting resin which features a low-viscosity and a high tear strength for a wide variety of applications. This material is ideal for casting flexible molds, parts, gaskets, and prototypes. Freeman 1040 may be cast up to 2" thick in an insulated mold.

Physical Properties

Color (when mixed)	Off-white
Mix Ratio (R:H, by weight)	10:100
Mix Ratio (R:H, by volume)	9:100
Viscosity (cps, mixed)	1,350
Gel Time (minutes @ 77°F.)	28
Demold Time (hours)	24
Hardness (Shore A) (ASTM 2240)	45-55
Specific Gravity, Mixed	1.04
Volumetric Yield (cu. in./ lb.) (ASTM D-792)	26.6
Tensile Strength (psi) (ASTM D-638)	1,190
Tear Strength (psi) (ASTM D-624)	120
Elongation (% - ASTM D-638)	280
Linear Shrinkage (in/in)* (ASTM D-2566)	.001

*Actual shrinkage dependent upon mass

Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
055130	Freeman 1040 Gallon Unit (Resin & Hardener)	1-Gallon	8.8
055132	Freeman 1040 Hardener Only	5-Gallon	40
055131	Freeman 1040 Resin Only	2-Quarts	4

Physical and mechanical properties of tooling plastics herein reported are typical after a full cure of seven (7) days at room temperature or equivalent. Designated mix ratios must be adhered to for desired results. The user shall determine the suitability of this product for their application and assumes all risks and liabilities associated with the use of this product. The exclusive remedy for all proven claims is replacement of our materials only and in no event shall Freeman Mfg. & Supply Co. be liable for special, incidental, or consequential claims.

READ SAFETY DATA SHEETS AND PRODUCT LABELS BEFORE USING PRODUCT