



Freeman 1090 Economical Prototyping Urethane Resin

Description

Freeman 1090 is a water clear urethane elastomer that is ideal for creating parts which require near-perfect clarity. It features a 1:1 mix ratio and a low mix viscosity, which makes it excellent for pouring thin wall parts.

Physical Properties

Color (when mixed)	Clear
Mix Ratio (by weight)	100:90
Mix Ratio (by volume)	1:1
Viscosity (cps, mixed)	600
Gel Time (minutes @ 77°F.)	20
Demold Time (hours)	16
Hardness (Shore D) (ASTM 2240)	80
Specific Gravity, Mixed	1.04
Volumetric Yield (cu. in./ lb.) (ASTM D-792)	26.7
Flexural Strength (psi) (ASTM D-790)	11,000
Tensile Strength (psi) (ASTM D-638)	2,500
Linear Shrinkage (in/in)* (ASTM D-2566)	0.001

*Actual shrinkage dependent upon mass

Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
055416	Freeman 1090 Quart Unit (Resin & Hardener)	Quart	3.80
055415	Freeman 1090 Gallon Unit (Resin & Hardener)	Gallon	15.2
055414	Freeman 1090 5-Gallon Unit (Resin & Hardener)	5-Gallon	76

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