



## Freeman 1085 Polyurethane Elastomer

### Description

Freeman 1085 is a tan-colored urethane elastomer that fills the need for a slower setting, economical, and rigid duplicating plastic. Featuring a 1:1 mix ratio by weight or volume, this product is well suited for creating models and prototypes. This material offers a very low viscosity for creating thin-walled parts.

### Physical Properties

Color (when mixed)	Beige
Mix Ratio (by weight)	1:1
Mix Ratio (by volume)	1:1
Viscosity (cps, mixed)	80
Gel Time (minutes @ 77°F)	6
Demold Time (hours)	½ - 2
Hardness (Shore D)(ASTM D2240)	69
Specific Gravity (mixed)	1.12
Volumetric Yield (cu. in./lb.)(ASTM D792)	24.7
Compressive Strength (psi)(ASTM D695)	4,880
Flexural Strength (psi)(D790)	5,600
Flexural Modulus (psi)(D790)	1.7x10 <sup>5</sup>
Tensile Strength (psi)(ASTM D638)	3,300
Deflection Temperature @ 66 psi (°F)(ASTM D648)	137
Linear Shrinkage (in/in <sup>2</sup> )* (ASTM D2566)	0.002

\*Actual Shrinkage dependent upon mass.

### Ordering Information

SKU	Description	Size	Net wt.
055502	Freeman 1085 Quart Unit (Resin & Hardener)	Quart	2 lb.
055412	Freeman 1085 Gallon Unit (Resin & Hardener)	Gallon	15.2 lb
054411	Freeman 1085 5-Gallon Resin Only	5 Gallon	38 lb.
055126	Freeman 1085 5-Gallon Hardener Only	5 Gallon	38 lb.

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

