



# Freeman 1070 Rapid Cure Polyurethane Casting Resin

## Description

Freeman 1070 is an off white, very fast-curing material which may be hand mixed and poured to create parts which simulate injection molded plastic. This product features an extremely low viscosity for accurately duplicating surfaces and the ability to be demolded in 15 minutes, which allows for multiple parts per day. Freeman 1070 may be cast up to ½" in thickness.

## Physical Properties

Color (when mixed)	Off White
Mix Ratio (by weight)	100:92
Mix Ratio (by volume)	1:1
Viscosity (cps, mixed)	80
Gel Time (minutes @ 77°F.)	3
Demold Time (minutes)	15
Hardness (Shore D) (ASTM 2240)	70
Specific Gravity, Mixed	1.05
Volumetric Yield (cu. in./ lb.)	26.4
Tensile Strength (psi) (ASTM D-638)	3,000
Compressive Strength (psi)	3,650
Flexural Strength (psi)	4,500
Flexural Modulus (psi)	132,000
Linear Shrinkage (in/in) * (ASTM D-2566)	0.010
Deflection Temp. (°F @ 66 psi)	140

\*Actual shrinkage dependent upon mass

## Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
055500	Freeman 1070 Quart Unit (Resin & Hardener)	Quart	2.1
055406	Freeman 1070 Gallon Unit (Resin & Hardener)	Gallon	15.4
055438	Freeman 1070 55-Gallon Unit (Resin & Hardener)	55-Gallon	850

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