



Freeman 1080 Slow Polyurethane Casting Resin

Description

Freeman 1080 Slow is a brilliant white urethane elastomer that is well suited for duplicating and creating prototypes of rigid injection molded parts. Features a 1:1 mix ratio by volume and a very low mixed viscosity for excellent pouring results in thin-wall sections. Freeman 1080 Slow may be cast up to 1/2" thick.

Physical Properties

Color (when mixed)	Brilliant White
Mix Ratio (by wt., Resin to Hardener, A to B)	117:100
Mix Ratio (by volume, Resin to Hardener, A to B) .	1:1
Mixed Viscosity (cps)	150
Gel Time (min. @ 72°F.)	20
Hardness (Shore D)	80
Tensile Strength (psi - ASTM D-412)	6,650
Flexural Strength (psi - ASTM D-790)	9,500
Flexural Modulus (psi - ASTM D-790)	288,000
Compressive Strength (psi - ASTM D-695)	8,300
Deflection Temperature (°F)	134
Specific Gravity	1.12
Linear Shrinkage (in./in.*- ASTM D-2566)	0.001
Volumetric Yield (cu. in./ lb.)	24.7
Demold Time (hours)	2 - 4

*- Actual shrinkage dependent upon mass.

Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
055419	Freeman 1080 Slow Urethane	Quart Kit	2
055412	Freeman 1080 Slow Urethane	Gallon Kit	16
054411	Freeman 1080 Slow Urethane	5 Gallon Kit	80

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

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Freeman 1080 Fast Polyurethane Casting Resin

Description

Freeman 1080 Fast is a brilliant white urethane elastomer that is well suited for duplicating and creating prototypes of rigid injection molded parts. Features a 1:1 mix ratio by volume and a very low mixed viscosity for excellent pouring results in thin-wall sections. Freeman 1080 Fast may be cast up to 1/2" thick.

Physical Properties

Color (when mixed)	Brilliant White
Mix Ratio (by wt., Resin to Hardener, A to B)	117:100
Mix Ratio (by volume, Resin to Hardener, A to B) .	1:1
Mixed Viscosity (cps)	150
Gel Time (min. @ 72°F.)	7
Hardness (Shore D)	80
Tensile Strength (psi - ASTM D-412)	6,650
Flexural Strength (psi - ASTM D-790)	9,500
Flexural Modulus (psi - ASTM D-790)	288,000
Compressive Strength (psi - ASTM D-695)	8,300
Deflection Temperature (°F)	134
Specific Gravity	1.12
Linear Shrinkage (in./in.*- ASTM D-2566)	0.001
Volumetric Yield (cu. in./ lb.)	24.7
Demold Time (hours)	2 - 3

*- Actual shrinkage dependent upon mass.

Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
055409	Freeman 1080 Fast Urethane	Gallon Kit	16
054410	Freeman 1080 Fast Urethane	5 Gallon Kit	80

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