



Repro[®] One Fast-Cast Urethane

Description

Repro One is the latest and most highly developed formulation in our extensive line of fast cast urethanes. When compared to other fast cast urethanes, Repro One features higher heat resistance, higher Shore D hardness, lower moisture sensitivity, less filler settling, and improved release characteristics.

Physical Properties

Color (when mixed)	Aluminum
Mix Ratio (R:H, by weight or volume)	1:1
Viscosity (cps, mixed)	1,500
Gel Time (minutes @ 77°F.)	6-7
Demold Time (minutes.)	60-90
Hardness (Shore D) (ASTM 2240)	87
Specific Gravity, Mixed (ASTM D-792)	1.75
Volumetric Yield (cu. in./ lb.)	15.8
Compressive Strength (psi) (ASTM D-695)	7,860
Flexural Strength (psi) (ASTM D-790)	4,290
Flexural Modulus (psi) (ASTM D-790)	799,000
Tensile Strength (psi) (ASTM D-638)	2,350
Tensile Modulus (psi) (ASTM D-638)	582,000
Izod Impact Strength (ft-lbs./in) (ASTM D-256)	0.30
Deflection Temperature @ 66 psi (°F) (ASTM D-648)	156
Coefficient of Thermal Expansion (in/in/°F) (ASTM D696-98)	1.79 x 10 ⁻⁵
Linear Shrinkage (in/in)* (ASTM D-2566)	0.001

*Actual shrinkage dependent upon mass

Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
053090	Repro One Quart Unit	Quart	5
053093	Repro One Gallon Unit	Gallon	20
053095	Repro One 5-Gallon Unit	5-Gallon	100

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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