



Repro[®] 95 Fast-Cast Urethane

Description

Repro 95 is an unique castable polyurethane, featuring a high aluminum content which provides excellent machining and polishing characteristics. This casting resin, which has a gray metallic appearance is ideal for prototype thermoforming and wax injection mold applications for investment casting.

Physical Properties

Color (when mixed)	Gray
Mix Ratio (R:H, by weight or volume)	1:1
Viscosity (cps, mixed)	1,450
Gel Time (minutes @ 77°F.)	6-7
Demold Time (minutes.)	60-90
Hardness (Shore D) (ASTM 2240)	83-85
Specific Gravity, Mixed (ASTM D-792)	1.90
Volumetric Yield (cu. in./ lb.)	14.5
Compressive Strength (psi) (ASTM D-695)	7,140
Flexural Strength (psi) (ASTM D-790)	3,070
Flexural Modulus (psi) (ASTM D-790)	505,000
Tensile Strength (psi) (ASTM D-638)	1,770
Tensile Modulus (psi) (ASTM D-638)	561,000
Izod Impact Strength (ft-lbs./in) (ASTM D-256)	0.29
Deflection Temperature @ 66 psi (°F) (ASTM D-648)	131
Coefficient of Thermal Expansion (in/in/°F) (ASTM D696-98)	3.13 x 10 ⁻⁵
Linear Shrinkage (in/in)* (ASTM D-2566)	0.0012

*Actual shrinkage dependent upon mass

Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
053051	Repro 95 Quart Unit	Quart	5
053052	Repro 95 Gallon Unit	Gallon	20

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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