



Repro[®] Ultra Light Fast-Cast Urethane

Description

Repro Ultra Light is a very low density, syntactic polyurethane casting resin designed for weight critical applications and easy machinability. This material, when cured, may be worked with hand tools or CNC machining equipment. A long working time allows for large, accurate castings and low viscosity of this resin provides for excellent surface reproduction. Repro Ultra Light is also an excellent choice to use as a hardness-matched adhesive for low density tooling boards and urethane foam boards.

Physical Properties

Color (when mixed)	Tan
Mix Ratio (R:H, by weight or volume)	1:1
Viscosity (cps, mixed)	1,200
Gel Time (minutes @ 77°F.)	10-11
Demold Time (minutes)	120-180
Hardness (Shore D) (ASTM 2240)	55
Specific Gravity, Mixed (ASTM D-792)	.59
Volumetric Yield (cu. in./ lb.)	47
Compressive Strength (psi) (ASTM D-695)	2,700
Flexural Strength (psi) (ASTM D-790)	1,840
Flexural Modulus (psi) (ASTM D-790)	160,000
Tensile Strength (psi) (ASTM D-638)	1,490
Tensile Modulus (psi) (ASTM D-638)	72,400
Izod Impact Strength (ft-lbs./in) (ASTM D-256)	0.12
Deflection Temperature @ 66 psi (°F) (ASTM D-648)	128
Coefficient of Thermal Expansion (in/in/°F) (ASTM D696-98)	4.18 x 10 ⁻⁵
Linear Shrinkage (in/in)* (ASTM D-2566)	0.0014

*Actual shrinkage dependent upon mass

Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
053196	Repro Ultra Light Quart Unit	Quart	7
053200	Repro Ultra Light Gallon Unit	Gallon	35

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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