



## Pro-Cast Tool Fast-Cast Urethane

### Description

Pro-Cast Tool is a fast-cast polyurethane that features a 1:1 mix ratio for ease of use, low viscosity for fine detail reproduction, and a 60-90 minute demold for fast part production. This material is excellent for foundry patterns and core boxes.

### Physical Properties

Color (when mixed)	Gray
Mix Ratio (R:H, by weight or volume)	1:1
Viscosity (cps, mixed)	1,800
Gel Time (minutes @ 72°F.)	10
Demold Time (minutes)	60-90
Hardness (Shore D) (ASTM 2240)	85
Specific Gravity, Mixed	1.82
Volumetric Yield (cu. in./ lb.) (ASTM D-792)	15.2
Compressive Strength (psi) (ASTM D-695)	6,800
Flexural Strength (psi) (ASTM D-790)	4,250
Flexural Modulus (psi) (ASTM D-790)	600,000
Tensile Strength (psi) (ASTM D-638)	2,800
Deflection Temperature @ 66 psi (°F) (ASTM D-648)	124
Coefficient of Thermal Expansion (in/in/°F) (ASTM D696-98)	$3.3 \times 10^{-5}$
Linear Shrinkage (in/in)* (ASTM D-2566)	0.001

\*Actual shrinkage dependent upon mass

### Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
056345	Pro-Cast Tool 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