



Pro-Cast 20 Fast-Cast Urethane

Description

Pro-Cast 20 is ideal for making foundry patterns, core boxes, shop aids, and prototypes. This product offers an easy one to one mix ratio, a shore hardness of 85D, and 7-10 minute working life for larger castings. Pro-Cast 20 is available in Gray, Blue and off-White.

Physical Properties

Color (when mixed)	Blue, Gray, White
Mix Ratio (R:H, by weight or volume)	1:1
Viscosity (cps, mixed)	1,500
Gel Time (minutes @ 72°F.)	7-10
Demold Time (minutes)	60-90
Hardness (Shore D) (ASTM 2240)	85
Specific Gravity, Mixed	1.78
Volumetric Yield (cu. in./ lb.) (ASTM D-792)	15.6
Compressive Strength (psi) (ASTM D-695)	7,400
Flexural Strength (psi) (ASTM D-790)	4,900
Flexural Modulus (psi) (ASTM D-790)	580,000
Tensile Strength (psi) (ASTM D-638)	3,100
Tensile Modulus (psi) (ASTM D-638)	941,000
Izod Impact Strength (ft-lbs./in) (ASTM D-256)	0.28
Deflection Temperature @ 66 psi (°F) (ASTM D-648)	139
Coefficient of Thermal Expansion (in/in/°F) (ASTM D696-98)	2.5 x 10 ⁻⁵
Linear Shrinkage (in/in)* (ASTM D-2566)	0.0017

*Actual shrinkage dependent upon mass

Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
053363	Pro-Cast 20 Gray Gallon Unit	Gallon	20
053365	Pro-Cast 20 White Gallon Unit	Gallon	20
053363	Pro-Cast 20 Blue 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