



Pro-Cast 20

Description

Pro-Cast 20 resin and hardener polyurethane for rapid tooling features a six to ten minute work life for large castings. It can be demolded after 60 to 90 minutes at room temperature. The Shore 85D system is supplied in three colors: gray, blue, and off-white. Pro-Cast 20 R/H can be used for molds, patterns, and shop aids, as well as for casting parts and prototypes.

Physical Properties

Color (when mixed)	Blue, Gray, White
Mix Ratio (by weight or volume)	1:1
Mixed Viscosity (cps)	1,500
Gel Time (min. @ 72°F.)	7-10
Hardness (Shore D)	85
Compressive Strength ^[1] (psi)	7,400
Flexural Strength ^[2] (psi)	4,900
Flexural Modulus ^[2] (psi)	580,000
Tensile Strength ^[3] (psi)	3,100
Tensile Modulus ^[3] (psi)	941,000
Izod Impact Strength ^[4] (ft-lbs./in.)	0.28
Specific Gravity	1.78
Linear Shrinkage ^[6] (in./in.*)	0.0017
Vol. Wt. Ratio (cu. in./ lb.)	15.6
Deflection Temperature @ 66 psi ^[7] (°F)	139°F
Demold Time (minutes)	60-90

*-Actual shrinkage dependent upon mass

ASTM Tests: [1]-D695, [2]-D790, [3]-D638, [4]-D256, [5]-D696-98, [6]-D2566, [7]-D648

Ordering Information

Item Number	Description	Net Wt.
056364	Pro-Cast 20 Gray Gallon Unit	20 lbs
056365	Pro-Cast 20 White Gallon Unit	20 lbs
056363	Pro-Cast 20 Blue Gallon Unit	20 lbs
056374	Pro-Cast 20 Gray Resin Only	50 lbs
056375	Pro-Cast 20 Gray Hardener Only	50 lbs
056376	Pro-Cast 20 Blue Resin Only	50 lbs
056377	Pro-Cast 20 Blue Hardener Only	50 lbs

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.

READ SAFETY DATA SHEETS AND PRODUCT LABELS BEFORE USING PRODUCT

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