



MASTER FAST-CAST POLYURETHANES



▶ **Master Fast-Cast Polyurethanes** are highly filled, rigid, and fast setting. They offer low exotherm, shrink, and cost for producing foundry patterns, molds, fixtures, prototype vacuum form molds, or prototypes. These urethanes are manufactured exclusively by Freeman.

Specifications

	Mix Ratio R:H (by wt. or vol.)	Gel Time (min.) @ 72°F	Demold Time (min.) @ 72°F	Hardness (Shore D)	Specific Gravity	Mixed Viscosity (cps) @ 1 min.	Volumetric Yield (in. ³ /lb.)	Shrink (in./in.)*	Compressive Strength (psi)	Flexural Strength (psi)	Flexural Modulus (psi)	Tensile Strength (psi)	Tensile Modulus (psi)	Izod Impact (ft. lb./in.)	Deflection Temp. (°F)	C.T.E. (in./in./°F)
Master Dyna-Cast	1:1	6-7	60	85	1.9	1,500	14.5	0.0010	7,841	4,705	803,333	2,663	990,833	0.31	148°F/64°C	-
Dyna-Cast 20	1:1	7-10	60-90	85	1.78	1,500	15.6	0.0017	7,400	4,900	580,000	3,100	941,000	0.28	139°F/59°C	-
Master Cast 783	1:1	7-8	60-90	85	1.9	1,650	14.5	0.0010	6,500	3,500	900,000	3,000	902,000	0.30	125°F/51°C	2.5 x 10 ⁻⁵
ASTM Tests	-	-	-	D-2240	D-792	-	-	D-2566	D-695	D-790	D-790	D-638	D-638	D-256	D-648	D-696-88

*Dependent upon mass.

Master Dyna-Cast

- ▶ 6-7 min. gel time
- ▶ 60-90 min. demold



Master Dyna-Cast is the most popular fast-cast urethane in the Master line.

This two-component material features a perfect blend of gel time, demold time, and accuracy for a wide range of uses. Its low odor, viscosity, and shrinkage all work together for detailed and precise duplications. It is perfect for producing durable foundry patterns, core boxes, and fixtures.

Dyna-Cast 20

- ▶ 7-10 min. gel time
- ▶ 60-90 min. demold

This fast-setting, low-shrinkage polyurethane features a cured hardness of 85 Shore D. It is ideal for molds, patterns and core boxes.

Available in blue and gray.

Master Cast 783

- ▶ 7-8 min. gel time
- ▶ 60-90 min. demold

Master Cast 783 is a two-component urethane that is ideal for a variety of applications. This product also features low moisture sensitivity and fast demold times without sacrificing accuracy.

PROTECT POLYURETHANES WITH FREEMAN 302!

Freeman 302 is an inert gas used to preserve and prolong the usable life of moisture-sensitive polyurethanes. Before resealing your containers, spray a short burst in the open container and seal immediately. Repeat after every use.



For part numbers, technical documents, and ordering, visit our website at www.freemansupply.com.



Join Freeman 360° today! Use your Customer Number to create an online account on [FreemanSupply.com!](http://FreemanSupply.com)

Your Freeman Customer Number can be found on any invoice.



ABOUT FREEMAN MANUFACTURING & SUPPLY CO.

Freeman is North America's extensive composites manufacturing materials supplier offering a comprehensive selection of fiberglass and carbon fabric, resins, releases, vacuum-bagging materials, and high-temperature tooling boards. Freeman's 13 locations across North America and dedicated technical team allows for high-quality products and service.

BRANCH LOCATIONS & PUBLIC WAREHOUSES

Freeman has strategically placed satellite locations across North America with customer service representatives ready to help. Thousands of products are stocked at these locations as well as public warehouses to reduce your shipping costs.

STRATEGIC & EFFECTIVE STOCKING SYSTEMS

Freeman's inventory staff constantly monitors sales and stocking data across the country to properly provide the right amount of products at each location.

WORLDWIDE SHIPPING

Freeman ships orders all across the globe and has various international distributors available to supply customers with top-quality products.



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TERMS & CONDITIONS

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