



INT. CURE POLYURETHANE ELASTOMERS

➔ These hand-pourable **Intermediate Cure Polyurethane Elastomers** offer different hardnesses and working times, and can be demolded in as little as 15 minutes to 2 hours. This enables the production of multiple thermoplastic-like prototypes and short-run end-use parts per day.



Specifications

	Mix Ratio R:H (by wt.)	Mix Ratio R:H (by vol.)	Gel Time (sec.) @ 72°F	Demold Time (min.) @ 72°F	Shore Hardness	Viscosity R/H (cps)	Density (g/cc)	Volumetric Yield (in. ³ /lb.)	Shrink (in./in.)*	Compressive Strength (psi)	Flexural Strength (psi)	Flexural Modulus (psi)	Tensile Strength (psi)	Izod Impact (ft. lb./in.)	Deflection Temp. (°F)	Color
RenCast 6497 (Discontinued) <i>No direct alternative</i>	1:1	-	4-5	2	70A	1,875	1.22	25.2	-	-	-	-	995	-	-	Lt. Amber
RenPIM 6486 (Discontinued) <i>No direct alternative</i>	100:50	1:1	7-8	8	67D	7,800/75	1.13	23.9	-	-	4,750	110,000	3,600	6.6	156	Amber
Freeman 1085 (Discontinued) <i>See Freeman 1085HS</i>	1:1	1:1	6	30-120 min.	69D	80	1.12	24.7	0.002	4,880	5,600	170,000	3,300	0.35	137	Beige
Freeman 1085HS	1:1	1:1	7	30 min.	70D	90	1.05	26.6	0.003	-	4,500	235,000	4,500	3.0	-	White
RenCast 6432-1 (Discontinued) <i>See Freeman 1070 or Freeman 1080</i>	100:50	100:50	5-6	1-2	72D	50/1,100	1.09	24.7	0.005	7,200	8,600	234,000	5,600	0.6	163	Off-White
Freeman 1070	100:92	1:1	3	15-30 min.	70D	80	1.05	26.6	0.004	3,650	4,500	132,000	3,000	-	140	Off-White
Freeman 1080	115:100	1:1	20	2-4	80D	150	1.12	24.7	0.003	8,300	9,500	288,000	6,650	0.31	134	White
RenCast 6491 (Discontinued) <i>No direct alternative</i>	1:1	89:100	4-5	30-40 min.	85D	200/640	1.16	23	-	33,500	16,000	400,000	8,600	1.2	205	Off-White
Freeman 2075	1:1	1:1	20	3"	75D	190	1.09	25.4	0.001	-	9,000	-	5,400	0.001	140	White
ASTM	-	-	D-2471	-	D-2240	D-2393	D-792	D-792	D-2566	D-695	D-790	D-790	D-638	D-256	D-648	-

*Dependent upon mass.

Freeman 1070

- ▶ 3 min. gel time
- ▶ 15-30 min. demold
- ▶ 70 Shore D
- ▶ Off-White

This economical, easily mixed urethane creates parts that simulate injection molded plastic. It features low viscosity, ease of pouring, and a short demold time for multiple part production. It is castable up to ½" in thickness.

Freeman 1080

- ▶ 20 min. gel time
- ▶ 2-4 hour demold
- ▶ 80 Shore D
- ▶ White

This brilliant white, tough urethane elastomer features a 1:1 mix ratio by volume, a low viscosity for pouring thin-walled parts, and sufficient time to degas. It is castable up to ½" in thickness.

Freeman 1085HS

- ▶ 7 min. gel time
- ▶ 30 min. demold
- ▶ 70 Shore D
- ▶ White

Freeman 1085HS is one of the most economical and user-friendly polyurethane elastomers for creating prototype injection-molded parts. It features high impact resistance, low viscosity for easy pouring, low moisture sensitivity, fast demold time, and can be cast up to 3" thick. It can be tinted with our Freeman Coloring Tints due to its white color.

Freeman 2075

- ▶ 20 min. gel time
- ▶ 2-4 hr. demold
- ▶ 75 Shore D
- ▶ White

Freeman 2075 features an easy 1:1 mix ratio, low-viscosity, and high impact strength. Freeman 2075 produces thermoplastic like parts making it ideal for casting prototypes, rigid parts, short-run production of injection molded parts, and thermoformed parts.

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.

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