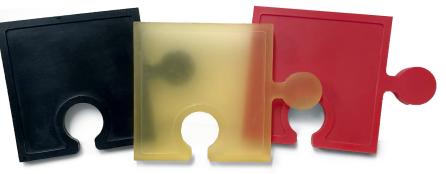
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OVERNIGHT CURE POLYURETHANE ELASTOMERS SEMI-RIGID

These **Overnight Cure, Semi-Rigid Polyurethane Elastomers** are known for their excellent impact strength and abrasion resistance, making them ideal for foundry tooling as well as semi-rigid part production.



Freeman 1060LV in Black, Amber, and Red

Specifications

Arranged in order of Shore Hardness with discontinued products noted.

	Mix Ratio R:H (by wr	Mix Ratio R.H	Mixed Viscosity	ting Thici	Shore Harden	Gel Time (min.) = _	Demold Time	Density (a.)	Volumetric V.	Shrink (in	Tensile Strences	Elongation	Tear Strence.	Deflection Temp	
	kin V(d)	kin (by	Mix (cp.	Cas Lin	shc	Gel (mi	Del (hr	Der	Vol. (in:	Shr	Ten Str _r	Elor	T _{ea,}	Dei (°F)	Color
RenCast 6402-3 (Discontinued) See Freeman 2480	35:100	31:100	940	1	82A	31-33	24	1.08	25.6	0.001	2,172	270	285	-	Off-White
Freeman 2480	46:100	1:2.5	630	4	75-85A	10-15	24	1.08	25.6	0.0002	1,420	400	-	-	Translucent White
Freeman 1050 (Discontinued) See Freeman 2050	1:1	100:94	1,650	4	85A	26	16	1.10	25.2	0.001	2,050	510	280	-	Lt. Amber
RenCast 6403-3 (Discontinued) See Freeman 2490 or 2050	50:100	44:100	710	0.5	85-90A	30	24	1.10	25.2	0.001	3,334	328	419	_	Off-White
RenCast 6442 (Discontinued) See Freeman 2050	1:1	100:94	1,610	4	85A	28	24	1.09	25.4	<0.001	2,100	525	290	-	Lt. Amber
RenCast 6443 (Discontinued) See Freeman 2490 or 2050	100:60	100:60	2,450	2	95A	19	24	1.06	26.1	0.001	3,500	475	375	-	Lt. Amber
Freeman 2490	58:100	1:2	600	4	85-95A	10-15	24	1.09	25.4	0.0002	1,940	500	-	-	Translucent White
Freeman 2050	100:40	-	2,000	_	90A	23	16	1.06	26.6	-	1,500	460	350	-	Amber
Flexane 80	77:23	-	10,000	4	87A	30	10	1.04	26.5	0.0018	2,100	650	350	-	Black
Freeman 2095	100:40	100:39	2,400	2	95A	30	24	1.04	26.5	0.0002	2,550	430	325	-	Dark Amber
Flexane 94	69:31	-	6,000	4	97A	10	5	1.04	26.5	0.0014	2,800	500	415	-	Black
Freeman 1060 (Discontinued) See Freeman 1060LV or 2060/60	100:60	100:60	2,600	2	60D	28	16	1.05	26.4	0.001	3,200	300	510	-	Red, Black
RenCast 178-88/Ren 6444 (Discontinued) See Freeman 1060LV or 2060/60	100:60	100:60	2,500	2	60D	27	24	1.05	26.4	0.001	3,400	325	550	-	Red
Freeman 1060LV	100:50	100:50	750	2	60D	15-25	16	1.16	23.8	0.001	3,200	45	550	TBD	Amber
Freeman 2060/60	100:60	100:60	2,200	3	60D	25	24	1.06	26.3	<0.002	3,600	325	560	135	Amber, Red, Black
Freeman 1066 (Discontinued) See Freeman 2060/66	100:50	100:50	3,200	2	65D	15-17	2-4	1.03	26.9	0.0025	3,100	140	630	181	Red, Black
Freeman 2060/66	100:50	100:50	3,200	2	65D	15	24	1.03	27	<0.002	3,100	140	630	180	Amber, Red, Black
ASTM	-	-	D-2393	-	D-2240	D-2471	-	D-792	D-792	D-695	D-638	D-790	D-624	D-2566	_

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Freeman 2050

Alternative to Freeman 1050, RenCast 6403-3, RenCast 6442, and RenCast 6443

- > 23 min. gel time
- ▶ 16 hour demold

Freeman 2050 is a tough, semi-flexible urethane that is ideal for creating

- ▶ 90 Shore A

molds requiring some degree of

flexibility, as well as for producing semirigid prototypes and finished parts.

It may be easily thickened for brush-on applications using Fumed Silica.

Freeman 1060LV

Alternative to Freeman 1060, RenCast 178-88/Ren 6444

> 20 min. Gel Time

Freeman 1060LV is a low-viscosity, semirigid polyurethane elastomer designed

- ▶ 16 hr. demold
- ▶ 60 Shore D

for foundry applications where abrasion resistance and impact strength are critical. Features same-day demold

and low viscosity for ease of pouring and capturing detail. Freeman 1060LV is ideal for foundry patterns, core boxes, wear resistance parts, and holding/assembly fixtures.

Freeman 2060/60

Alternative to Freeman 1060, RenCast 178-88/Ren 6444

- ▶ 25 min. gel time
- > 24 hour demold

▶ 60 Shore D

Freeman 2060 with Freeman 60 Hardener is a semi-rigid polyurethane elastomer recommended for applications where abrasion resistance and impact strength are critical.

Freeman 66

Freeman 2060/60 is ideal for foundry patterns, core boxes, wear resistance parts, and holding/assembly fixtures. Available in amber, red, or black.

Freeman 2060/66

Alternative to Freeman 1066

- ▶ 15 min. gel time
- > 24 hour demold
- ▶ 65 Shore D

Freeman 2060 with Freeman 66 Hardener is specifically designed for highly abrasive-

resistant foundry tooling. It can be sanded or machined once cured and features a heat deflection temperature of 180°F. It has a shorter gel time than Freeman 2060/60. Available in amber, red, or black.



- Freeman 2095 cures semi-rigid in mass
- > 30 min. gel time and is flexible in thin cross-sections. It is used for foundry patterns, core
- > 24 hour demold
- ▶ 95 Shore A

boxes, metal forming pads, and other applications where good abrasion

resistance and strength are required. Castable to 2" thickness.

Freeman 2480

Alternative to RenCast 6402-3

- > 24 hour demold > 75-85 Shore A
- ▶ 10-15 min. gel time featuring low viscosity for easy mixing and excellent detail reproduction. This system is ideal for production models,

Freeman 2480 is a tough and flexible,

metal-forming pads, and a variety of

mechanical parts. Maximum casting thickness is 4".

Freeman 2490

- 10-15 min. gel time
- > 24 hour demold
- ▶ 85-95 Shore A
- durable parts such as impellers, rollers, gears and wheels. It features quick gel time, good hydrolysis resistance, and low

Freeman 2490 is ideal for producing

detail reproduction. Maximum casting thickness is 4".

Devcon Flexane 80

- Featuring low shrink and high chemical
- and abrasion resistance, this black-
- colored material is ideal for creating
- ▶ 87 Shore A
- flexible molds and holding fixtures. Use the Flex-Add additive with Flexane 80

Liquid to produce a lower durometer castable urethane.

Devcon Flexane 94

Flexane 94 features 10 min. gel time

▶ 97 Shore A

- ▶ 5 hour demold
- low shrink and high chemical and abrasion resistance. It is a black.

semi-rigid material for extremely tough, flexible molds and non-marring holding and assembly fixtures.

ISOMold URP-5122

- ▶ 15 min. gel time
- 16 hour demold
- ▶ 70 Shore A

This semi-rigid urethane is used to make molds of detailed masters that do not contain undercuts. The most common

uses include foundry patterns and core

boxes, gaskets, liners, and fixtures. This dark amber, economical material features a 1:1 mix ratio by volume for ease of use.

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



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- viscosity for easy mixing and excellent

- - > 30 min. gel time
 - 10 hour demold