

Ren:C:O-Thane[®]

Polyurethanes

RP 6442 R/H

A LOW MOISTURE-SENSITIVE SHORE 85±5A ELASTOMER

Ren[®] RP 6442 resin and hardener is an amber, two-component casting elastomer designed for tooling applications. RP 6442 R/H cures fully at room temperature without containing MOCA, TDI, or MDA. The low viscosity, excellent working life, and convenient one-to-one mixing ratio makes RP 6442 R/H easy to handle.

MIX RATIO

	By Weight:	By Volume:
Resin to Hardener	100 to 100	100 to 94

TYPICAL HANDLING PROPERTIES*

	<u>ASTM Method</u>	<u>Resin</u>	<u>Hardener</u>	<u>Mixed</u>
Color	Visual	Light yellow	Light amber	Amber
Specific Gravity	D-1963	1.04	1.10	
Viscosity, cP	D-2393	8,000– 12,000	80–130	1,600
Gel Time, 4 fl. oz, minutes	D-2471			28

NOTE: These physical properties are reported as typical test values obtained by our test laboratory. If assistance is needed in establishing product specifications, please consult with our Product Management Department.

RECOMMENDED CURE SCHEDULE

1. 77°F (25°C) at 7 days

TYPICAL CURED PROPERTIES*

	<u>ASTM Method</u>	<u>Cure 1 Value</u>
Density, lb./ft ³ (g/cm ³)	D-792	68 (1.09)
Cubic Inch per Pound		25.4
Hardness, Shore A	D-2240	85 ± 5
Ultimate Tensile Strength, psi	D-638	2,100
% Elongation	D-638	525
Tear Strength, ppi	D-624	290
Linear Shrinkage, in/in**	D-2566	0.001

* Tested @ 77°F (25°C) unless otherwise noted.

** Molds are half round steel, 10 inches long, 0.875 inches deep

SAFETY: Do not use or handle this product until the Material Safety Data Sheet has been read and understood.

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