

# Ren:C:O-Thane<sup>®</sup>

## Polyurethanes

### RP 6410-1 R/H

#### A RESILIENT SHORE 37±7A ELASTOMER FOR FLEXIBLE MOLDS

Ren<sup>®</sup> RP 6410-1 resin and hardener is the most flexible polyurethane of the Ren:C:O-Thane line. The flexibility permits easy stripping of molds from undercuts and complex parts. The low viscosity and convenient one-to-one mixing ratio by weight make RP 6410-1 R/H easy to handle. Complete cure can be obtained at room temperature or can be accelerated by heating at 176°F (80°C) for 16 hours after the material has gelled.

#### MIX RATIO

	By Weight:	By Volume:
Resin to Hardener	100 to 100	93 to 100

#### TYPICAL HANDLING PROPERTIES\*

	<u>ASTM Method</u>	<u>Resin</u>	<u>Hardener</u>	<u>Mixed</u>
Color	Visual	Milky-white	Clear amber	Off-White
Specific Gravity	D-1963	1.10	1.00	
Viscosity, cP	D-2393	10,000–14,000	120–130	1,200
Gel Time, 135g, minutes	D-2471			30

**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 SCHEDULES

1. 77°F (25°C) at 7 days
2. 77°F (25°C) at 24 hours, plus 176°F (80°C) at 16 hours

#### TYPICAL CURED PROPERTIES\*

	<u>ASTM Method</u>	<u>Cure 1 Value</u>	<u>Cure 2 Value</u>
Density, lb./ft <sup>3</sup> (g/cm <sup>3</sup> )	D-792	65 (1.04)	65 (1.04)
Cubic Inch per Pound		26.6	26.6
Hardness, Shore A	D-2240	37 ± 7	37 ± 7
Ultimate Tensile Strength, psi	D-638	505	535
% Elongation	D-638	330	400
Tear Strength, ppi	D-624	74	80
Linear Shrinkage, in/in**	D-2566	0.003	0.010

\* 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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