

Ren:C:O-Thane[®]

Polyurethanes

RP 6403-1 R/H

A FAST CURING GOOD LOAD RECOVERY SHORE 92±7A ELASTOMER

Ren[®] RP 6403-1 resin and hardener is a low-viscosity, milky-white, two-component polyurethane casting elastomer. RP 6403-1 R/H contains no MOCA or TDI, yet it develops high tensile and tear strengths without a heat post-cure. It can be further strengthened with mild heat post-cure if desired. The low viscosity permits excellent reproduction of detail and good air release.

MIX RATIO

	By Weight:	By Volume:
Resin to Hardener	50 to 100	44 to 100

TYPICAL HANDLING PROPERTIES*

	<u>ASTM Method</u>	<u>Resin</u>	<u>Hardener</u>	<u>Mixed</u>
Color	Visual	Amber	Milky-white	Off-white
Specific Gravity	D-1963	1.20	1.06	
Viscosity, cP	D-2393	35–50	1,100–1,500	800
Gel Time, 150g, minutes	D-2471			15

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 ³ (g/cm ³)	D-792	69 (1.10)	69 (1.10)
Cubic Inch per Pound		25.2	25.2
Hardness, Shore A	D-2240	92 ± 7	92 ± 7
Ultimate Tensile Strength, psi	D-638	2,500	3,400
% Elongation	D-638	240	390
Tear Strength, ppi	D-624	470	580
Linear Shrinkage, in/in**	D-2566	0.001	0.004

* 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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