



Rapid Cast™

Product Name

RC 900 Polyurethane



Description

RC 900 is a tough, impact resistant elastomer formulated for room temperature meter-mix dispensing systems and short mold cycle times. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

Physical Properties

Mix Ratio	Resin:Hardener (parts by weight)		100:90
Mix Ratio	Resin:Hardener (parts by volume)		100:100
Viscosity (cps@77°F)	Resin	100	Gel Time
	Hardener	850	Demold Time
	Mixed	425	Color
Specific Gravity (g/cc)	Resin	1.20	Amber
	Hardener	1.08	

Cure 1 ► 7 days at 77°F
 Cure 2 ► 16 hours at 77°F + 4 hours at 176°F + 2 hours at 248°F

Cured Properties

	Method	Cure 1	Cure 2
Hardness (shore D)	ASTM D-2240	85 ± 5	85 ± 5
Tensile Strength (psi)	ASTM D-638	8,000	9,000
Elongation at Break	ASTM D-638	3%	4%
Compression Strength (psi)	ASTM D-695	11,000	12,000
Compression Modulus (psi)	ASTM D-695	690,000	620,000
Ultimate Flex Strength (psi)	ASTM D-790	14,000	145,000
Flexural Modulus (psi)	ASTM D-790	350,000	375,000
Notched Izod (ft.lbs./in.)	ASTM D-256	0.8	0.8
Linear Shrink (in./in.)	ASTM D-2566	N/A	N/A
Heat Deflection Temp. (66psi)	ASTM D-648	96°C / 204°F	130°C / 266°F
Heat Deflection Temp. (264psi)	ASTM D-648	88°C / 194°F	108°C / 226°F
Specific Gravity (g/cc)		1.12	1.12

Processing Notes

RC-900 can be used at room temperature. Meter-mix equipment is recommended due to the short working-life of the formulation.

Agitate the hardener and resin before use to ensure that the formula is homogeneous.

Safety and Handling

DO NOT USE UNTIL MSDS HAVE BEEN READ AND UNDERSTOOD. Store containers in a dry location. Partially used containers should be blanketed with dry nitrogen to prevent moisture contamination. Moisture will react with the resin component, creating carbon dioxide gas and a possible pressure increase in the container. SPECIFICATION WRITERS: The above values are meant to represent typical properties only. Users are encouraged to qualify products in their own laboratories prior to specification publication.

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