

RP 3270 R/H

LAMINATING AND SURFACE CASTING MATERIAL

REN[®] RP 3270 resin and hardener is a room-temperature cure, two-component epoxy system that can be used both as a laminating and as a surface casting material. It is blue in color, has good abrasion resistance, can be cast ½" thick, and will reproduce fine detail. RP 3270 R/H is silicon carbide filled. As a laminate, it is well suited for die construction where high shock loads are anticipated.

On storage, there may be some settling, but the filler is easily re-dispersed even with hand mixing.

MIX RATIO

	By Weight:	By Volume:
Resin to Hardener	100 to 14	100 to 20

TYPICAL HANDLING PROPERTIES*

	<u>ASTM Method</u>	<u>Resin</u>	<u>Hardener</u>	<u>Mixed</u>
Color	Visual	Blue	Clear amber	Blue
Specific Gravity	D-1963	1.46–1.56	1.04	
Viscosity, cP	D-2393	4,500	3,200	3,600
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 Value</u>
Density, lb./ft ³ (g/cm ³)	D-792	106 (1.70)
Cubic Inch per Pound	D-792	16.3
Hardness, Shore D	D-2240	84
Ultimate Flexural Strength, psi	D-790	30,000
Flexural Modulus, psi	D-790	1,900,000
Ultimate Tensile Strength, psi	D-638	28,000
Tg by DMA, E", °F(°C)	D-4065	171 (77)
Ultimate Compressive Strength, psi	D-695	23,000
Coefficient of Thermal Expansion	D-3386	
	-22 to 86°F, in/in/°F	11.0 x 10 ⁻⁶
	-30 to 30°C, in/in/°C	19.8 x 10 ⁻⁶

* Layup: Contact, 8 layer Volan A 7500 glass cloth, 90° Rotation.

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

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

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