

RP 4017 RESIN

RP 1510 HARDENER

HIGH-HEAT BLACK EPOXY LAMINATING SYSTEM

Ren[®] RP 4017 resin with RP 1510 hardener utilizes multifunctional resins to give a good balance of cost and performance. This system utilizes a hardener that does not contain MDA and does not stain skin.

MIX RATIO

Resin to Hardener	By Weight: 100 to 15	By Volume: 100 to 18
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TYPICAL HANDLING PROPERTIES*

	<u>ASTM Method</u>	<u>Resin</u>	<u>Hardener</u>	<u>Mixed</u>
Color	Visual	Black	Amber	Black
Specific Gravity	D-1963	1.20–1.30	1.04–1.06	
Viscosity, cP	D-2393	12,000	1,600	8,000
Gel Time, 4 fl. oz, minutes	D-2471			90

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 90 minutes,	plus
150°F (66°C) at 2 hours,	plus
200°F (93°C) at 2 hours,	plus
250°F (121°C) at 2 hours,	plus
300°F (149°C) at 2 hours	plus
350°F (177°C) at 3 hours	

TYPICAL CURED PROPERTIES*

	<u>ASTM Method</u>	<u>Cure Value</u>
Density, lb./ft ³ (g/cm ³)	D-792	89 (1.42)
Cubic Inch per Pound	D-792	19.5
Hardness, Shore D	D-2240	93
Ultimate Flexural Strength, psi	D-790	77,000
Ultimate Tensile Strength, psi	D-638	80,000
Tg by DMA, E", °F(°C)	D-4065	385 (196)
Ultimate Compressive Strength, psi	D-695	44,000
Coefficient of Thermal Expansion	D-3386	
86 to 212°F, in/in/°F		34 x 10 ⁻⁶
30 to 100°C, in/in/°C		61 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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