

Ren Specialty Tooling Epoxies Specifications

Product Number	Mix Ratio (by wt.) Resin: Hardener	Mix Ratio (by vol.) Resin: Hardener	Gel Time (min.) @ 72°F	Demold Time (hours) @ 72°F	Hardness (Shore D)	Mixed Viscosity (cps)	Density (g/cc)	Volumetric Yield (cu. in. / lb.)	Shrink (in / in)	Compressive Strength (psi)	Flexural Strength (psi)	Flexural Modulus (psi)	Tensile Strength (psi)	C.T.E. (in / in / °F) *	Deflection Temp. (°F)	Color
RenLam 569/ Ren 569-1	100:11:00	100:18:00	35	24	80	Dough-like	1.2	23	-	5,000	4,600	.38 x 10 ⁶	2,800	3.8 x 10 ⁻⁵	150	Blue
RenLam 569/ Ren 569-2	100:14:00	100:23:00	50	24	80	Dough-like	1.14	21	-	8,000	4,000	.25 x 10 ⁶	1,800	4.8 x 10 ⁻⁵	138	Blue
RenPaste 1250	100:100	100:100	28	24	87	Paste	1.52	18.2	0.002	12,000	7,300	-	3,800	2.16 x 10 ⁻⁵	176	Gray
RenPaste 1257-3	100:100	100:100	30	24	-	Paste	1.71	16.2	-	13,000	6,000	-	3,980	-	-	Blue
RenPaste 8281	100:100	100:100	90-165	24	45	Dough-like	0.6	46.2	0.0002	1,300	549	.12 x 10 ⁶	413	9.4 x 10 ⁻⁶	118	Blue
RenPaste 177-62	100:25:00	-	65	24	55	Paste	0.39	71.4	0.0015	1,560	1,560	-	1,570	1.8 x 10 ⁻⁵	138	Lt. Yellow
Epocast 1511 A/B	100:20:00	-	40-60	24	-	Paste	1.25	22.2	-	10,000	-	-	-	-	-	Gray
Epocast 1610-A1	one component		-	-	-	Paste	0.5	55.4	-	2,400	-	-	-	-	-	Off-White
Epocast 1617 A/B	100:20	-	60-80	7 Days	-	Paste	0.7	39.5	-	5,500	-	-	-	-	-	Off-White
Epocast 1618 D/B	100:14	-	15	24	-	Paste	0.7	39.5	-	5,000	-	-	-	-	-	White
Epocast 1628 A/B	100:25	-	65	48	-	Paste	0.5	55.4	-	2,800	-	-	-	-	-	Lt Yellow
Epocast 1636 A/B	100:8	-	120	7 Days	-	29,000	1.72	16.1	-	15,000	-	-	-	-	-	Gray
Epocast 1652 A/B	100:12	-	30-60	7 Days	-	Paste	0.8	34.6	-	9,500	-	-	-	-	-	Lt. Tan
Epocast 1670 A/B	100:20	-	60-90	48	-	Paste	0.7	39.5	-	6,500	-	-	-	-	-	Off-White
Epocast 8623-A/ Ren 946	100:14	-	20-Dec	24	-	Paste	0.7	39.5	-	4,000	-	-	-	-	-	Off-White
Epocast 8623-A/ Ren 9861	100:20	-	40-60	24	-	Paste	0.7	39.5	-	5,000	-	-	-	-	-	Off-White
ASTM	-	-	D-2471	-	D-2240	D-2393	D-792	D-792	D-2566	D-695	D-790	D-790	D-638	D-696	D-648	

*Deflection Temperature is the temperature when a 1/2 x 1/2 x 5 bar (supported at both ends) deflects 0.010 of an inch under a 264 psi fiber stress. The maximum service temperature may be far above this value depending on the application and the stress of the plastic at high temperature.

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