

Ren Specialty Tooling Epoxies Specifications

	Mix Ratio Resin to Hrd'nr by wt.	Mix Ratio Resin to Hrd'nr by vol.	Gel Time (min)	Mixed Viscosity Brookfield (cps.)	Density (g/cc)	Vol. Wt. Ratio (in. ³ /lb.)	Hardness (Shore D)	Compressive Strength (psi)	Ultimate Flexural Strength (psi)	Ultimate Tensile Strength (psi)	Coefficient Of Thermal Expansion (in./in./°F)	Deflection Temp.* (264 psi) (°F)	Shrinkage (in/in) (Cast)	Color
RenLam 569 / Ren 569-1	100:11	-	35	Dough-like	1.20	23	80	5,000	4,600	2,800	38 x 10 ⁻⁶	150	-	Blue
RenLam 569 / Ren 569-2	100:14	-	50	Dough-like	1.14	21	80	8,000	4,000	1,800	48 x 10 ⁻⁶	138	-	Blue
RenLam 8169	100:10	100:18	50	Paste	1.19	23.3	74	5,700	440,000	2,400	23.0 x 10 ⁻⁶	147	0.002	Blue
RenPaste 1220	100:50	100:50	33	Paste	1.64	16.9	81	12,000	6,500	3,750	22.0 x 10 ⁻⁶	178	0.002	Green
RenPaste 1225	100:18	100:25	15	Paste	1.44	19.2	88	14,300	7,800	4,500	30.0 x 10 ⁻⁶	176	0.002	White
RenPaste 1250	100:100	100:100	28	Paste	1.52	18.2	87	12,000	7,300	3,800	21.6 x 10 ⁻⁶	176	0.002	Gray
RenPaste 1257-3	100:100	100:100	30	Paste	1.71	16.2	-	13,000	6,000	3,980	-	-	-	Blue
RenPaste 3281	100:100	-	150	Dough-like	0.55	50	50	2,690	1,500	1,086	16.2 x 10 ⁻⁶	150	0.0002	Blue
RenPaste 8281	100:100	100:100	90-165	Dough-like	0.60	46.2	45	1,300	549	413	9.4 x 10 ⁻⁶	118	0.0002	Blue
RenPaste 177-62	100:25	-	65	Paste	0.39	71.4	55	1,560	1,560	1,070	1.8 x 10 ⁻⁶	138	0.0015	Light Yellow
REn														
ASTM			D2471	D2393	D792	D792	D2240		D790	D638	D3386	D648	D2566	

*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.