

RenCast® Epoxy Casting Resins 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)	Volumetric Yield (in. ³ /lb.)	Hardness (Shore D)	Ultimate Compressive Strength (psi)	Ultimate Flexural Strength (psi)	Ultimate Tensile Strength (psi)	Coefficient Of Thermal Expansion (in./in./°F)	Tg (°F)	Shrinkage (in/in) (Cast)
Aluminum-Filled Epoxy Casting Resins													
RenCast 3262	100:10:00	100:16:00	45	20,000	1.7	16.7	86	14,400	10,300	7,300	2.70×10^{-5}	180	0.003
RenCast 3269	100:09:00	100:18:00	60	4,300	1.78	15.6	87	14,400	13,000	8,700	3.76×10^{-5}	171	0.001
High Temperature Aluminum-Filled Epoxy Casting Resins													
RenCast 4036/ Ren 1500	100:06:00	100:10:00	60	20,000	1.69	16.5	90	30,000	7,500	6,500	1.90×10^{-5}	300	0.004
RenCast 4036/ Ren 1511	100:13:00	100:22:00	140	15,000	1.58	17.6	91	25,800	9,300	6,300	2.25×10^{-5}	350	0.005
RenCast 4037/ Ren 4037	100:13:00	100:22:00	140-165	12-18,000	1.58	17.6	91	25,800	9,300	6,300	2.25×10^{-5}	350	0.005
RenCast 8236/Fast	100:06:00	100:10:00	107	18,200	1.66	16.7	90	33,900	11,300	8,000	2.3×10^{-5}	307	-
RenCast 8236/Slow	100:13:00	100:21:00	240	21,000	1.62	17.1	91	32,580	12,811	8,100	2.4×10^{-5}	294	-
Iron-Filled Epoxy Casting Resins													
RenCast 3209-1	100:10:00	100:25:00	90	15,000	2.04	13.5	75	16,500	8,400	5,500	2.60×10^{-5}	160	0.005
RenCast 3209-2	100:11:00	100:28:00	240	15,000	2.15	12.9	85	11,500	8,000	5,000	3.20×10^{-5}	138	0.006
RenCast 3215-2	100:18:00	100:35:00	200	3,600	1.65	16.9	88	11,100	7,300	4,900	3.80×10^{-5}	154	0.004
RenCast 3215-3 mix 1	100:30:00	100:57:00	70	6,200	1.54	18	85	12,600	6,900	4,300	-	120	0.002
RenCast 3215-3 mix 2	100:40:00	100:76	65	5,400	1.51	18.3	70	Soft	300	1,200	-	93	0.002
RenCast 3215-3 mix 3	100:50:00	100:95	60	4,600	1.48	18.7	47	Rubbery	Rubbery	300	-	n/a	0.002
RenCast 3253	100:05:00	100:16:00	30	7,500	2.99	9.3	90	15,200	8,500	7,100	3.26×10^{-5}	169	0.002
RenCast 3253-3	100:06:00	100:17:00	100	10,500	2.57	10.8	90	14,780	9,020	6,800	2.01×10^{-5}	-	0.0007
RenCast 3261	100:05:00	100:16:00	25	35,000	2.94	9.4	88	16,500	8,500	6,000	3.00×10^{-5}	180	0.003
Unfilled Epoxy Casting Resins													
RenCast 140	100:25:00	100:30:00	40	1,300	1.09	25.4	80	-	-	9,500	-	-	-
RenCast 3266 mix 1	55:45:00	100:100	32	2,500	1.12	25	75	14,000	2,200	2,000	-	136	0.002
RenCast 3266 mix 2	50:50:00	100:120	35	2,500	1.1	25.2	60	2,600	120	520	-	102	0.002
RenCast 3266 mix 3	45:55:00	100:150	39	2,500	1.1	25.2	40	Rubbery	Rubbery	Rubbery	-	-	0.002
ASTM			D-2471	D-2393	D-792	D-792	D-2240	D-695	D-790	D-638	D-3386	D-4065	D-2566

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