

RenCast® Fast Polyurethane Elastomers Specifications

Product	Mix Ratio Resin to Hardener by weight	Gel Time (min)	Demold Time (hrs.)	Viscosity Resin / Hardener (cps.)	Density (g/cc)	Ultimate Compressive Strength (psi)	Hardness (Shore)	Ultimate Flexural Strength (psi)	Ultimate Tensile Strength (psi)	Flexural Modulus (psi)	Deflection Temp.* (66 psi) (°F)	Izod Impact (ft.lb./in.)	Tg per DMA (°F)	Cured Colors
RenCast 6432-1 Fast	100:50	5-7	1-2	50 / 1,100	1.09	7,200	72D	8,600	5,900	234,000	163	0.6	153	Off-White
RenCast 6463 Fast	100:100	4-6	1-2	280 / 700	1.09	6,800	79D	10,800	5,700	230,000	152	1.1	-	Crystal Clear
RenCast 6486 Slow	100:50	7-8	8	7,800 / 75	1.16	-	67D	4,800	3,600	110,000	156	6.6	217	Amber
RenCast 6488	100:32	13-16	8	3,000 / 145	1.1	-	68D	4,400	3,600	95,000	206	5.0	249	Black
RenCast 6491 Fast	100:100	4-5	1-2	200 / 640	1.14	33,500	85D	16,000	8,600	400,000	205	0.8	224	Amber
RenCast 6492 Fast	100:100	5-8	4	40 / 1,800	1.3	13,500	85D	14,000	8,200	400,000	158	0.5	156	Off-White
RenCast 6493 Fast	30:100	11-12	3	-	-	-	30A	-	507	-	-	-	-	Light Amber
RenCast 6494 Fast	50:100	5-7	4	2,200 mixed	-	-	45A	-	385	-	-	-	-	Light Amber
RenCast 6496 Fast	100:100	5-6	2-4	-	1.1	-	68D	-	4,000	110,000	140	0.8	-	White
RenCast 6497 Fast	100:100	4-5	2	-	-	-	70A	-	995	-	-	-	-	Light Amber
RenCast 6498 Fast	50:100	5-6	2	-	-	-	85A	-	950	-	-	-	-	Amber
RenPIM VG2185	80:100	5-6	45 min.	1600 / 200	1.14	-	80D	8,700	6,500	-	230	3.9**	-	Black
ASTM test				D2393	D792	D695	D2240	D790	D638	D790	D648	D256	D4065	

*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 66 psi fiber stress.

**Unnotched

The maximum service temperature may be far above this value depending on the application and the stress of the plastic at high temperature.