

Physical Properties of Polytek TinSil® Silicone Rubber Products

Product	Mix Ratio	Part A Color	Part B Color	Pour Time (min)	Demold Time (hr)	Total Cure Time (hr)	Specific Gravity	Mix Viscosity (cP)	Shore A Hardness	Tensile Strength psi (mPa)	% Elongation	Linear Shrinkage	Die B Tear Strength pli (kN/m)	Die T Tear Strength pli (kN/m)
TinSil 70-Series														
TinSil 70-11	10A:100B	Blue ¹	White	60	16 - 24	48	1.10	10,000	A10	221 (1.52)	600	0.3	89 (15.58)	24 (4.20)
TinSil 70-20	10A:100B	Blue ¹	White	60	16 - 24	48	1.10	10,000	A20	363 (2.50)	830	0.3	100 (17.51)	31 (5.43)
TinSil 70-25	10A:100B	Blue ¹	White	60	16 - 24	48	1.10	14,000	A25	306 (2.11)	516	0.3	107 (18.74)	36 (6.31)
TinSil 70-30	2A:100B	Clear	Tan	60	16 - 24	48	1.12	26,000	A30	398 (2.74)	517	0.3	138 (24.16)	55 (9.63)
TinSil 70-60	5A:100B	Clear	Red ¹	30	16 - 24	48	1.50	17,000	A60	262 (1.81)	134	0.8	25 (4.38)	ND
TinSil 80-Series														
TinSil 80-15	10A:100B	Orange	Off White	30	16 - 24	48	1.10	12,000	A15	249 (1.72)	503	0.3	87 (15.24)	31 (5.43)
TinSil 80-30	10A:100B	Orange	Off White	45	16 - 24	48	1.17	17,000	A30	392 (2.70)	383	0.3	145 (25.38)	43 (7.53)
TinSil 80-40	10A:100B	Orange	Off White	45	16 - 24	48	1.21	20,000	A40	400 (2.76)	244	0.3	62 (10.86)	17 (2.98)
TinSil Gel and Spray														
TinSil Gel-10	10A:100B	Clear	Translucent	60	16 - 24	48	1.10	10,000	A10	221 (1.52)	654	0.3	89 (15.58)	24 (4.20)
TinSil Brush/Spray 25	10A:100B	Clear	Translucent	30	16 - 24	48	1.10	Thixotropic	A25	278 (1.91)	608	0.3	75 (13.13)	27 (4.73)

¹ Component requires stirring before use.

Conventions: psi/145 = MPa (megaPascals)
 pli x .1751 = kN/m (kiloNewtons per meter)
 ND = Not Determined

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