

Thomson Engineered Polymer (TEP) 110 (Base Material)

Load Ratings (Pounds) — Types 1, 2, 3 and 4

				Radial Load Capacity in Pounds														Static Load	
Type 1	Type 2	Type 3	Type 4	10 RPM		25 RPM		50 RPM		100 RPM		250 RPM		500 RPM		1000 RPM	2000 RPM		
				Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry
—	—	—	3L4-D	42	14	40	13	38	12.5	36	9	34	6	27	3	16	8.5	90	
4N6	4N6-D	4L6	4L6-D	88	29	85	25	83	23	80	17	71	8	50	4	25	15	145	
5N7	5N7-D	5L7	5L7-D	130	44	124	39	122	36	120	25	95	11	56	5	32	18	225	
—	—	—	5L9-D	190	64	186	57	180	49	175	33	138	15	82	7	47	26	330	
6N8	6N8-D	6L8	6L8-D	180	61	178	56	171	47	157	29	119	12	66	6	37	20	325	
8N8	8N8-D	8L8	8L8-D	240	82	236	73	229	63	206	32	139	13	72	6	41	—	435	
—	—	—	8L12-D	425	145	415	120	400	110	360	56	244	23	125	11	72	—	750	
—	—	—	—	255	88	250	78	245	67	200	32	139	13	72	6	41	—	750	
10N12	10N12-D	10L12	10L12-D	457	155	430	125	410	110	384	50	200	20	117	8	64	—	900	
—	—	—	10L16-D	685	230	650	190	610	163	575	75	300	30	175	11	96	—	1300	
—	—	—	12L15-D	274	94	258	75	240	60	202	25	100	9	57	4	3	—	490	
12N12	12N12-D	12L12	12L12-D	570	195	540	157	500	125	420	52	210	19	120	8	6	—	1010	
14N12	14N12-D	14L12	14L12-D	660	219	625	175	575	130	465	54	220	20	128	9	—	—	1260	
16N16	16N16-D	16L16	—	1000	330	965	270	880	165	665	71	306	24	173	11	—	—	2000	
—	—	—	16L18-D	1200	400	1160	325	1050	200	800	80	365	27	200	12	—	—	2400	
18N16	18N16-D	18L16	—	1120	345	1060	285	960	170	680	75	320	26	170	12	—	—	2260	
—	—	—	18L18-D	1350	420	1270	345	1170	205	815	83	380	30	205	13	—	—	2700	
—	—	20L16	—	1230	348	1165	310	1050	175	700	77	308	28	172	13	—	—	2500	
—	—	—	20L18-D	1500	425	1400	370	1250	210	840	88	390	31	210	14	—	—	3000	
—	—	24L20	—	1900	560	1700	425	1430	212	915	92	408	32	220	15	—	—	3100	
—	—	—	24L24-D	2500	740	2250	562	1880	280	1210	120	540	34	290	17	—	—	4850	
—	—	—	32L39-D	5370	1510	4700	935	3650	480	2020	200	990	54	—	—	—	—	9700	
—	—	—	48L28-D	5300	1560	4350	650	2600	340	1560	115	—	—	—	—	—	—	10500	

Load Ratings (Pounds)—Types 5 and 6

		Radial ¹ Load Capacity in Pounds														Static Load
Type 5	Type 6	10 RPM		25 RPM		50 RPM		100 RPM		250 RPM		500 RPM		1000 RPM	2000 RPM	
		Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	
3L3-F	3L3-FK	37	12.5	35	11.5	34	11	32	8	30	5	24	3	14	7.5	70
4L4-F	4L4-FK	68	22	66	19	64	16	62	12	55	6	39	3½	19	11	127
5L5-F	5L5-FK	107	33	102	37	100	28	99	20	78	9	46	4	26	14	202
5L7-F	5L7-FK	157	56	150	47	147	41	145	29	115	13	68	6	38	20	287
5L10-F	5L10-FK	210	70	204	64	200	56	198	40	156	18	92	8	52	28	404
6L6-F	6L6-FK	155	52	153	48	147	40	135	28	86	10	57	5	28	17	292
6L11-F	6L11-FK	296	100	294	92	280	77	258	54	195	20	108	10	56	33	557
7L7-F	7L7-FK	210	72	204	66	200	55	181	33	130	12	70	6	39	—	400
8L3½-F	8L3½-FK	125	43	123	38	119	33	107	17	72	7	37	3	21	—	218
8L5½-F	8L5½-FK	204	66	190	59	185	50	166	25	112	11	58	4	33	—	355
8L8-F	8L8-FK	290	95	270	84	262	72	236	37	158	16	82	7	47	—	525
—	8L12-FK	430	141	403	125	390	107	350	54	237	24	122	10	70	—	800
10L5½-F	10L5½-FK	240	81	220	65	215	57	202	26	105	10	61	4	33	—	445
10L7-F	10L7-FK	306	103	286	82	272	73	256	33	132	13	78	5	42	—	580
10L10-F	10L10-FK	437	148	410	119	390	105	367	48	190	19	112	7	61	—	830
10L14-F	10L14-FK	490	166	460	134	440	118	412	54	214	21	126	8	68	—	930
10L18-F	10L18-FK	630	213	590	172	560	151	530	68	276	26	161	10	88	—	1170
12L12-F	12L12-FK	640	220	610	177	563	140	470	58	236	21	135	8	70	—	1195
12L18-F	12L18-FK	720	248	680	198	630	157	528	65	265	23	152	9	78	—	1345
14L7½-F	14L7½-FK	465	155	440	123	405	86	328	35	155	13	90	5	—	—	870
14L14-F	14L14-FK	875	290	825	231	760	161	615	66	290	23	169	8	—	—	1630
16L16-F	16L16-FK	1110	367	1070	300	980	195	740	78	340	29	192	11	—	—	2140
18L18-F	18L18-FK	1420	440	1340	362	1220	210	865	86	407	30	218	12	—	—	2710
20L20-F	20L20-FK	1740	493	1645	440	1480	234	990	97	435	31	244	13	—	—	3360
24L24-F	24L24-FK	2500	740	2250	562	1880	280	1210	120	540	34	290	17	—	—	4850

¹Thrust loads on flange section of bearings not to exceed 25–50% of loads in chart.

Thomson Engineered Polymer (TEP) 110 (Base Material)

Load Ratings (Pounds) — Types 7 and 8

Bearing Number	Nominal Brg. I.D.	Static	10 RPM	50 RPM	100 RPM	250 RPM
2L1-FF	1/8"	15	4	3	2	1
2L2-FF		28	8	6	4	3
3L1-FF	3/16"	24	4	4	3	2
3L2-FF		48	9	8	6	4
4L1-FF	1/4"	32	5	5	4	2
4L2-FF		64	11	10	6	4
5L1-FF	5/16"	40	8	6	4	2
5L2-FF		80	16	12	8	4
6L1-FF	3/8"	48	9	7	5	2
6L2-FF		96	19	15	10	4
7L1-FF	7/16"	56	12	9	5	2
7L2-FF		112	24	18	10	4
8L1-FF	1/2"	68	13	10	5	2
8L2-FF		135	27	20	10	4
10L1-FF	5/8"	83	16	12	6	2.5
10L2-FF		175	32	25	12	5
12L1-FF	3/4"	100	20	14	6	2.5
12L2-FF		200	40	28	12	5

Radial Load Capacity in Pounds at Various RPMs (Non-Lubricated)

Note: Radial load capacities shown are for maximum plate thickness and will vary in direct proportion to change in plate thickness.

Load Ratings (Pounds) — Types 7 and 8 (Metric)

Bearing Number	Nominal Brg. I.D.	Static	10 RPM	50 RPM	100 RPM	250 RPM
8010A	3	16	5	4	3	2
8011A	4	20	9	6	5	4
8012A	5	27	11	10	6	4
8013A	6	34	13	12	7	4
8014A	8	42	15	13	8	4
8015A	10	60	16	14	9	5
8016A	12	80	20	16	11	5

Radial Load Capacity in Pounds at Various RPMs (Non-Lubricated)



Thomson Engineered Polymer (TEP) 642 (Plus Material)

Load Ratings (Pounds)—Types 5 and 6 Nyliner Plus Bearings

Bearing Number	Radial Load Capacity in Pounds						
	Static Load	10 RPM	25 RPM	50 RPM	100 RPM	250 RPM	500 RPM
3L3-F-642	159	44	39	36	32	24	12
4L4-F-642	288	77	64	52	48	32	16
5L5-F-642	459	126	107	91	80	40	20
5L7-F-642	651	186	157	133	116	57	28
5L10-F-642	917	245	214	182	160	82	41
6L6-F-642	663	182	161	130	112	48	24
6L11-F-642	1,264	350	308	250	216	89	44
7L7-F-642	908	252	221	179	132	57	28
8L3 1/2-F-642	495	151	127	107	68	28	14
8L5 1/2-F-642	806	231	198	163	100	44	22
8L8-F-642	1,192	333	281	234	148	65	32
10L5 1/2-F-642	1,010	284	218	185	104	44	22
10L7-F-642	1,317	361	275	237	132	57	28
10L10-F-642	1,884	518	399	341	192	81	40
10L14-F-642	2,111	581	449	384	216	113	57
10L18-F-642	2,656	746	576	491	272	145	73
12L12-F-642	2,713	770	593	455	232	97	48
12L18-F-642	3,053	868	663	510	260	145	73
14L7 1/2-F-642	1,975	543	412	280	140	61	30
14L14-F-642	3,700	1,015	774	523	264	113	57
16L16-F-642	4,858	1,285	1,005	634	312	129	65
18L18-F-642	6,152	1,540	1,213	683	344	145	73
20L20-F-642	7,627	1,726	1,474	761	388	161	81
24L24-F-642	11,010	2,590	1,883	910	480	194	97

Load Ratings (Pounds)—Types 7 and 8 Nyliner Plus Bearings

Bearing Number	Nominal Brg. I.D.	Static	10 RPM	50 RPM	100 RPM	250 RPM
2L1-FF-642	1/8"	34	12	10	8	4
2L2-FF-642	1/8"	64	24	20	15	12
3L1-FF-642	3/16"	54	12	13	11	8
3L2-FF-642	3/16"	109	27	27	23	16
4L1-FF-642	1/4"	73	15	17	15	8
4L2-FF-642	1/4"	145	33	34	30	16
5L1-FF-642	5/16"	91	24	20	19	8
5L2-FF-642	5/16"	182	48	40	38	16
6L1-FF-642	3/8"	109	27	23	19	8
6L2-FF-642	3/8"	218	57	50	38	16
7L1-FF-642	7/16"	127	36	30	19	8
7L2-FF-642	7/16"	254	72	60	38	16
8L1-FF-642	1/2"	154	39	34	19	8
8L2-FF-642	1/2"	306	81	67	38	16
10L1-FF-642	5/8"	188	48	40	23	10
10L2-FF-642	5/8"	397	96	84	45	20
12L1-FF-642	3/4"	227	60	47	23	10
12L2-FF-642	3/4"	454	120	94	45	20