PHYSICAL AND MECHANICAL PROPERTIES

Values are based on material 0.030 x 1/2 inch and will vary from those for other thickness to width ratios.

Truflex Type	ASTM Flexivity, (in/in)/Deg°F x 10^{-7}		Maximum sensitivity temperature range °F	Useful deflection temperature range °F	Recommended maximum temp °F	Modulus of elast. E, lbs/sq.in. x 10^{6}	Electrical resistivity at 75 °F		Density lb./cu.in.	ASTM type	Remarks
	50° -200oF temperature range	Maximum sensitivity temp range					ohms cm/ft	ohms sq.m/ft			
B1	150	147	0 to 300	-100 to 700	1000	25.0	475	373	0.295	TM1	Best all purpose 0 - 300°F
B2	129	132	100 to 550	-100 to 1000	1000	25.0	440	346	0.295	TM6	Best all purpose 100 - 550°F
B3	118	122	200 to 600	-100 to 1000	1000	25.5	415	326	0.296	TM30	Best all purpose 200 - 600°F
B11	140	145	150 to 450	-100 to 1000	1000	25.0	452	355	0.295		Best all purpose 150 - 450°F
BP1	185	185	0 to 300	-100 to 500	800	20.0	650	511	0.277		Better corrosion resistance than P675R
BP10	144	144	0 to 300	-100 to 500	800	19.5	675	530	0.275		Better corrosion resistance than P675R
BP570R	143	143	0 to 300	-100 to 500	800	21.5	565	444	0.284		Elect resistivity - medium flexivity
BP840R	109	109	0 to 300	-100 to 500	800	18.0	840	660	0.267		high resistivity - low flexivity
B100R	106	105	0 to 300	-100 to 700	1000	27.5	100	79	0.308	TM9	Elect resistivity - medium flexivity
B125R	121	120	0 to 300	-100 to 700	1000	27.0	125	98	0.305	TM10	Elect resistivity - medium flexivity
B150R	132	131	0 to 300	-100 to 700	1000	26.5	150	118	0.303	TM11	Elect resistivity - medium flexivity
B175R	137	136	0 to 300	-100 to 700	1000	26.0	175	137	0.301	TM12	Elect resistivity - medium flexivity
B200R	141	139	0 to 300	-100 to 700	1000	26.0	200	157	0.300	TM13	Elect resistivity - medium flexivity
B250R	147	145	0 to 300	-100 to 700	1000	25.5	250	196	0.298	TM14	Elect resistivity - medium flexivity
B300R	148	146	0 to 300	-100 to 700	1000	25.5	300	236	0.297	TM15	Elect resistivity - medium flexivity
B350R	149	147	0 to 300	-100 to 700	1000	25.0	350	275	0.295	TM16	Elect resistivity - medium flexivity
B400R	150	148	0 to 300	-100 to 700	1000	25.0	400	314	0.295	TM17	Elect resistivity - medium flexivity
C1	152	149	0 to 300	-100 to 700	1000	25.0	483	379	0.295	TM35	Good all purpose, high strength
C3	119	131	200 to 600	-100 to 800	1000	25.0	415	326	0.296	TM18	Good all purpose 200 - 600°F
C11	144	150	150 to 450	-100 to 900	1000	25.0	456	358	0.295	TM19	Good all purpose 50 - 450°F
E1	137	135	0 to 300	-100 to 700	1000	25.0	500	393	0.295	TM36	Good all purpose 0 - 300°F higher resist.
E3	104	122	200 to 600	-100 to 1000	1000	25.5	435	342	0.295	TM3	Good all purpose 200 - 600°F
E4	86	109	250 to 700	-100 to 1000	1000	26.0	400	314	0.296	TM4	Best all purpose 250 - 700°F
E5	64	83	300 to 800	-100 to 1000	1000	26.5	345	271	0.297	TM5	Best all purpose 300 - 800°F
F15R	70	69	0 to 300	-100 to 500	700	19.5	15	12	0.315		Elect resistivity - medium flexivity
F20R	131	129	0 to 300	-100 to 500	700	20.0	20	16	0.309	TM24	Elect resistivity - medium flexivity
F25R	135	132	0 to 300	-100 to 500	700	21.0	25	20	0.307		Elect resistivity - medium flexivity
F30R	140	137	0 to 300	-100 to 500	700	21.5	30	24	0.305	TM25	Elect resistivity - medium flexivity
F35R	143	140	0 to 300	-100 to 500	700	22.0	35	27	0.303		Elect resistivity - medium flexivity
F40R	144	141	0 to 300	-100 to 500	700	22.0	40	31	0.302		Elect resistivity - medium flexivity
F50R	147	144	0 to 300	-100 to 500	700	23.0	50	39	0.300	TM26	Elect resistivity - medium flexivity
F60R	146	143	0 to 300	-100 to 500	700	23.5	60	47	0.300		Elect resistivity - medium flexivity
F70R	147	144	0 to 300	-100 to 500	700	24.0	70	55	0.299	TM27	Elect resistivity - medium flexivity
F90R	148	145	0 to 300	-100 to 500	700	24.0	90	71	0.298	TM28	Elect resistivity - medium flexivity
F100R	149	146	0 to 300	-100 to 500	700	24.0	100	79	0.297		Elect resistivity - medium flexivity
F125R	149	146	0 to 300	-100 to 500	700	24.0	125	98	0.297		Elect resistivity - medium flexivity
G1	138	136	0 to 300	-100 to 700	1000	25.0	479	376	0.295	TM20	Good all purpose 0 - 300°F
G7	63	63	0 to 800	-100 to 1000	1000	27.5	445	350	0.286		Linear flexivity 0 - 800°F
GB14	101	100	0 to 300	-100 to 1000	1000	27.0	511	401	0.294		High corrosion resistance
J7	56	56	0 to 625	-100 to 500	625	22.0	106	83	0.303		Best corrosion resistance
LA1	158	156	0 to 300	-100 to 700	1000	25.0	476	374	0.292	TM29	Good all purpose 0 - 300°F, European
LA20R10	134	132	0 to 300	-100 to 500	700	20.0	20	16	0.309		Elect resistivity - medium flexivity
LA35R10	150	147	0 to 300	-100 to 500	700	22.0	35	27	0.301		Elect resistivity - medium flexivity
LA70R10	156	153	0 to 300	-100 to 500	700	24.0	66	52	0.296		Elect resistivity - medium flexivity
LA200R10	155	153	0 to 300	-100 to 700	1000	26.0	210	165	0.296		Elect resistivity - medium flexivity
LA3	122	126	200 to 600	-100 to 1000	1000	25.5	421	331	0.292		Best all purpose 200 - 600°F
LA55R30	120	123	0 to 300	-100 to 500	700	23.0	54	42	0.298		Elect resistivity - medium flexivity
N1	102	101	0 to 300	-100 to 500	1000	26.0	92	72	0.308	TM22	Low resistivity and flexivity
P3	183	213	200 to 600	-100 to 600	800	20.5	565	444	0.276	TM23	Flexivity increases uniformly w/temp.
P30R	189	188	0 to 400	-100 to 500	700	19.0	30	24	0.296	TM31	Elect resistivity - high flexivity
P35R	198	197	0 to 400	-100 to 500	700	19.0	35	27	0.291		Elect resistivity - high flexivity
P40R	201	200	0 to 400	-100 to 500	700	19.0	40	31	0.288		Elect resistivity - high flexivity
P50R	208	207	0 to 400	-100 to 500	700	19.0	50	39	0.286	TM33	Elect resistivity - high flexivity
P70R	214	212	0 to 400	-100 to 500	700	19.0	70	55	0.283	TM34	Elect resistivity - high flexivity
P100R	215	213	0 to 400	-100 to 500	800	19.0	100	79	0.282		Elect resistivity - high flexivity
P150R	217	216	0 to 400	-100 to 500	800	19.5	150	118	0.279		Elect resistivity - high flexivity
P1	211	210	0 to 400	-100 to 500	800	21.0	300	236	0.277		Elect resistivity - high flexivity
P350R	216	215	0 to 400	-100 to 500	800	20.5	350	275	0.276		Elect resistivity - high flexivity
P500R	203	202	0 to 400	-100 to 500	800	21.5	500	393	0.281		Elect resistivity - high flexivity
P675R	217	216	0 to 400	-100 to 500	800	19.0	675	530	0.276	TM2	Most active and economical
P850R	156	153	0 to 400	-100 to 500	800	18.0	850	668	0.267	TM8	Highest resistivity
SB175R	128	127	0 to 300	-100 to 700	1000	26.0	175	137	0.291		Elect resistivity - low cost interliner
SB250R	142	140	0 to 300	-100 to 700	1000	25.5	250	196	0.293		Elect resistivity - low cost interliner
SB300R	145	143	0 to 300	-100 to 700	1000	25.5	300	236	0.294		Elect resistivity - low cost interliner

PHYSICAL AND MECHANICAL PROPERTIES

Values are based on material 0.030 x 1/2 inch and will vary from those for other thickness to width ratios.

Truflex Type	DIN Specific Curvature X 10^{-6} (mm/mm)/Deg°C		Maximum sensitivity temperature range °C	Useful deflection temperature range °C	Recommended maximum temp °C	Modulus of elast. E, N/mm² x 10^{5}	Electrical resistivity at 24 °C, ohms mm²/m	Density g/cm³	ASTM type	DIN type
	10° - 93°C temperature range	Maximum sensitivity temp range								
B1	27.0	26.5	-20 to 150	-70 to 370	540	1.72	0.79	8.17	TM1	
B2	23.2	23.8	+40 to 290	-70 to 540	540	1.72	0.73	8.17	TM6	
B3	21.2	22.0	+90 to 320	-70 to 540	540	1.76	0.69	8.19	TM30	
B11	25.2	26.1	+70 to 230	-70 to 540	540	1.72	0.75	8.17		
BP1	33.3	33.3	-20 to 150	-70 to 260	430	1.38	1.08	7.67		
BP10	25.9	25.9	-20 to 150	-70 to 260	430	1.34	1.12	7.61		
BP570R	25.7	25.7	-20 to 150	-70 to 260	430	1.48	0.94	7.86		
BP840R	19.6	19.6	-20 to 150	-70 to 260	430	1.24	1.40	7.39		
B100R	19.1	18.9	-20 to 150	-70 to 370	540	1.90	0.17	8.53	TM9	
B125R	21.8	21.6	-20 to 150	-70 to 370	540	1.86	0.21	8.44	TM10	
B150R	23.8	23.6	-20 to 150	-70 to 370	540	1.83	0.25	8.39	TM11	
B175R	24.7	24.5	-20 to 150	-70 to 370	540	1.79	0.29	8.33	TM12	
B200R	25.4	25.0	-20 to 150	-70 to 370	540	1.79	0.33	8.30	TM13	
B250R	26.5	26.1	-20 to 150	-70 to 370	540	1.76	0.42	8.25	TM14	
B300R	26.6	26.3	-20 to 150	-70 to 370	540	1.76	0.50	8.22	TM15	
B350R	26.8	26.5	-20 to 150	-70 to 370	540	1.72	0.58	8.17	TM16	
B400R	27.0	26.6	-20 to 150	-70 to 370	540	1.72	0.66	8.17	TM17	
C1	27.4	26.8	-20 to 150	-70 to 370	540	1.72	0.80	8.17	TM35	
C3	21.4	23.6	+90 to 320	-70 to 430	540	1.72	0.69	8.19	TM18	
C11	25.9	27.0	+70 to 230	-70 to 480	540	1.72	0.76	8.17	TM19	
E1	24.7	24.3	-20 to 150	-70 to 370	540	1.72	0.83	8.17	TM36	
E3	18.7	22.0	+90 to 320	-70 to 540	540	1.76	0.72	8.17	TM3	
E4	15.5	19.6	+120 to 370	-70 to 540	540	1.79	0.66	8.19	TM4	
E5	11.5	14.9	+150 to 430	-70 to 540	540	1.83	0.57	8.22	TM5	
F15R	12.6	12.4	-20 to 150	-70 to 260	370	1.34	0.02	8.72		
F20R	23.6	23.2	-20 to 150	-70 to 260	370	1.38	0.03	8.55	TM24	
F25R	24.3	23.8	-20 to 150	-70 to 260	370	1.45	0.04	8.50		
F30R	25.2	24.7	-20 to 150	-70 to 260	370	1.48	0.05	8.44	TM25	
F35R	25.7	25.2	-20 to 150	-70 to 260	370	1.52	0.06	8.39		
F40R	25.9	25.4	-20 to 150	-70 to 260	370	1.52	0.07	8.36		
F50R	26.5	25.9	-20 to 150	-70 to 260	370	1.59	0.08	8.30	TM26	
F60R	26.3	25.7	-20 to 150	-70 to 260	370	1.62	0.10	8.30		
F70R	26.5	25.9	-20 to 150	-70 to 260	370	1.65	0.12	8.28	TM27	
F90R	26.6	26.1	-20 to 150	-70 to 260	370	1.65	0.15	8.25	TM28	
F100R	26.8	26.3	-20 to 150	-70 to 260	370	1.65	0.17	8.22		
F125R	26.8	26.3	-20 to 150	-70 to 260	370	1.65	0.21	8.22		
G1	24.8	24.5	-20 to 150	-70 to 370	540	1.72	0.80	8.17	TM20	
G7	11.3	11.3	-20 to 430	-70 to 540	540	1.90	0.74	7.92		
GB14	18.2	18.0	-20 to 150	-70 to 540	540	1.86	0.85	8.14		
J7	10.1	10.1	-20 to 330	-70 to 260	330	1.52	0.18	8.39		
LA1	28.4	28.1	-20 to 150	-70 to 370	540	1.72	0.79	8.08	TM29	TB 1577A
LA20R10	24.1	23.8	-20 to 150	-70 to 260	370	1.38	0.03	8.55		
LA35R10	27.0	26.5	-20 to 150	-70 to 260	370	1.52	0.06	8.33		
LA70R10	28.1	27.5	-20 to 150	-70 to 260	370	1.65	0.11	8.19		TB 1511
LA200R10	27.9	27.5	-20 to 150	-70 to 370	540	1.79	0.35	8.19		TB 1435
LA3	22.0	22.7	+90 to 320	-70 to 540	540	1.76	0.70	8.08		TB 1170A
LA55R30	21.6	22.1	-20 to 150	-70 to 260	370	1.59	0.09	8.25		TB 1109
N1	18.4	18.2	-20 to 150	-70 to 260	540	1.79	0.15	8.53	TM22	
P3	32.9	38.3	+90 to 320	-70 to 320	430	1.41	0.94	7.64	TM23	
P30R	34.0	33.8	-20 to 200	-70 to 260	370	1.31	0.05	8.19	TM31	
P35R	35.6	35.5	-20 to 200	-70 to 260	370	1.31	0.06	8.05		
P40R	36.2	36.0	-20 to 200	-70 to 260	370	1.31	0.07	7.97		
P50R	37.4	37.3	-20 to 200	-70 to 260	370	1.31	0.08	7.92	TM33	
P70R	38.5	38.2	-20 to 200	-70 to 260	370	1.31	0.12	7.83	TM34	
P100R	38.7	38.3	-20 to 200	-70 to 260	430	1.31	0.17	7.81		
P150R	39.1	38.9	-20 to 200	-70 to 260	430	1.34	0.25	7.72		
P1	38.0	37.8	-20 to 200	-70 to 260	430	1.45	0.50	7.67		
P350R	38.9	38.7	-20 to 200	-70 to 260	430	1.41	0.58	7.64		
P500R	36.5	36.4	-20 to 200	-70 to 260	430	1.48	0.83	7.78		
P675R	39.1	38.9	-20 to 200	-70 to 260	430	1.31	1.12	7.64	TM2	TB 20110
P850R	28.1	27.5	-20 to 200	-70 to 260	430	1.24	1.41	7.39	TM8	
SB175R	23.0	22.9	-20 to 150	-70 to 370	540	1.79	0.29	8.05		
SB250R	25.6	25.2	-20 to 150	-70 to 370	540	1.76	0.42	8.11		
SB300R	26.1	25.7	-20 to 150	-70 to 370	540	1.76	0.50	8.14		