



FEP HEAT SHRINK TUBING (SHRINK RATIO 1.3:1)

Optinova FEP heat shrink tubing has the outstanding properties of FEP; high temperature resistance, excellent electrical insulation and chemicals resistance combined with a low shrink temperature (approx. 110°C). This enables many materials to be covered in FEP for mechanical, electrical and chemical protection. In addition the non-stick properties are maintained. Applications for FEP heat-shrink are various and include cable jackets, non-stick rollers, sensor probe covers, hose protection, electrical terminal insulation.

A major advantage of FEP heat shrink tubing is that it can be heat-sealed or welded to itself. This means parts can be covered with the material and then heat-sealed so the part becomes completely encapsulated. This technique is for example used as corrosion protection to sensor probes in process industries.

FEP has lower shrink temperature, greater flexibility and more optical clarity compared to PTFE. This data sheet is for shrink ratio of 1.3:1. Please note shrink ratio of 1.6:1 is also available. Dimensions below are examples only. We can also produce according to customer needs.

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FEP 1.3:1 Heat Shrinkable Tubing AWG Sizes										
AWG Size	Expanded Inside Diameter (minimum)	Recovered Inside Diameter (maximum)	Wall Thickness			Expanded Inside Diameter (minimum)	Recovered Inside Diameter (maximum)	Wall Thickness		
			Min.	Nom.	Max.			Min.	Nom.	Max.
inch						mm				
24	0.031	0.027	0.006	0.008	0.010	0.79	0.69	0.15	0.20	0.25
22	0.036	0.032	0.006	0.008	0.010	0.91	0.81	0.15	0.20	0.25
20	0.045	0.039	0.006	0.008	0.010	1.14	0.99	0.15	0.20	0.25
18	0.060	0.049	0.006	0.008	0.010	1.52	1.25	0.15	0.20	0.25
16	0.075	0.061	0.007	0.009	0.011	1.91	1.55	0.18	0.23	0.28
14	0.092	0.072	0.007	0.009	0.011	2.34	1.83	0.18	0.23	0.28
12	0.115	0.089	0.007	0.009	0.011	2.92	2.26	0.18	0.23	0.28
10	0.141	0.114	0.007	0.010	0.013	3.58	2.90	0.18	0.25	0.33
9	0.158	0.124	0.007	0.010	0.013	4.01	3.15	0.18	0.25	0.33
8	0.180	0.143	0.007	0.010	0.013	4.57	3.63	0.18	0.25	0.33
7	0.197	0.158	0.007	0.011	0.015	5.00	4.01	0.18	0.28	0.38
6	0.225	0.180	0.007	0.011	0.015	5.72	4.57	0.18	0.28	0.38
5	0.248	0.198	0.007	0.011	0.015	6.30	5.03	0.18	0.28	0.38
4	0.290	0.226	0.007	0.011	0.015	7.37	5.74	0.18	0.28	0.38
3	0.310	0.249	0.007	0.011	0.015	7.87	6.32	0.18	0.28	0.38
2	0.365	0.280	0.008	0.012	0.016	9.27	7.11	0.20	0.30	0.41
1	0.400	0.311	0.008	0.012	0.016	10.16	7.90	0.20	0.30	0.41
0	0.400	0.349	0.008	0.012	0.016	11.18	8.86	0.20	0.30	0.41

FEP 1.3:1 Fractional Tubing												
Frac.	Dec.	Exp. ID (min.)	Rec ID (max.)	Wall Thickness			Dec.	Exp. ID (min.)	Rec ID (max.)	Wall Thickness		
				Min.	Nom.	Max.				Min.	Nom.	Max.
inch						mm						
3/8	0.375	0.500	0.383	0.011	0.015	0.019	9.53	12.70	9.73	0.28	0.38	0.48
7/16	0.438	0.580	0.448	0.016	0.020	0.024	11.13	14.73	11.38	0.41	0.51	0.61
1/2	0.500	0.666	0.510	0.016	0.020	0.024	12.70	16.92	12.95	0.41	0.51	0.61
5/8	0.625	0.830	0.637	0.021	0.025	0.029	15.88	21.08	16.18	0.53	0.64	0.74
3/4	0.750	1.000	0.764	0.026	0.025	0.034	19.05	25.40	19.41	0.66	0.76	0.86
7/8	0.875	1.170	0.891	0.031	0.030	0.039	22.23	29.72	22.63	0.79	0.89	0.99
1	1.000	1.330	1.020	0.031	0.035	0.039	25.40	33.78	25.91	0.79	0.89	0.99
1 1/8	1.125	1.500	1.145	0.031	0.035	0.039	28.58	38.10	29.08	0.79	0.89	0.99
1 1/4	1.250	1.666	1.270	0.031	0.035	0.039	31.75	42.32	32.26	0.79	0.89	0.99
1 3/8	1.375	1.833	1.390	0.031	0.035	0.039	34.93	46.56	35.31	0.79	0.89	0.99
1 1/2	1.500	2.000	1.520	0.031	0.035	0.039	38.10	50.80	38.61	0.79	0.89	0.99