

PEEKshrink™

PEEK Heat Shrink Extrusions

Overview-

PEEK, a linear, semi-crystalline aromatic polymer, is considered one of the highest performing thermoplastic materials; it can withstand extreme temperatures, high pressure and caustic fluids. Now, Zeus has taken PEEK to an entirely new level of performance with PEEKshrink™.

PEEKshrink™ provides a shrink-to-fit layer of protection for sensitive components and critical connections. PEEKshrink™ is an ideally suited product for challenging environments such as oil and gas exploration where abrasion, intense pressure, chemicals, water, or dielectric interference pose a threat to wires and electrical components. PEEKshrink™ is an obvious and optimal splicing aid for PEEK insulated wire. PEEKshrink™ is an alternative to traditional fluoropolymer protective coatings with its very wide working temperature range.



CONTINUOUS SERVICE TEMP



DIELECTRIC STRENGTH



ABRASION RESISTANCE



PEEKshrink™ provides all the benefits of PEEK but in a heat shrinkable form.

APPLICATIONS

- Electrical component insulation
- Medical device protection
- Wire and cable encapsulation and insulation
- Impact and wear resistant insulation
- Mandrel covering

CAPABILITIES AND SIZING

- Available in colors for identification purposes
- Available in cut lengths or continuous lengths, spooled
- Consistent shrink ratios up to 1.4:1
- Expanded ID range of 0.038" to 2.5" (0.965 to 63.5 mm)
- Recovered wall range of 0.004" to 0.010" (0.102 to 0.254 mm)

KEY PROPERTIES

- High continuous service temperature (260 °C / 500 °F)
- Extends life of the protected item
- Assures reliable performance
- Adhesion to metals
- Translucent recovery shrink temperature 300 °C to 340 °C (572 °F to 644 °F)
- Opaque recovery shrink temperature 360 °C to 385 °C (680 °F to 725 °F)



PEEKshrink™

Standard put-up length: 4 ft.

We specialize in customizing our PEEKshrink™ product line to your needs. Contact us to discuss sizes, lengths, and shrink ratios, or to request free samples.

PEEKSHRINK™ 1.4:1 HEAT SHRINKABLE AWG TUBING											
ZEUS P/N	ORDERED AS AWG SIZE	AS SUPPLIED INSIDE DIAMETER MIN.		RECOVERED DIMENSION AFTER SHRINKING ID MAX.		WALL THICKNESS MINIMUM		WALL THICKNESS NOMINAL		WALL THICKNESS MAXIMUM	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
85322	17	0.038	0.965	0.027	0.686	0.005	0.127	0.007	0.178	0.009	0.229
85318	16	0.045	1.143	0.032	0.813						
85184	15	0.055	1.397	0.039	0.991						
85204	14	0.085	2.159	0.060	1.524						
85197	13	0.092	2.337	0.065	1.651						
85189	12	0.101	2.565	0.072	1.829						
85313	11	0.112	2.845	0.080	2.032						
85310	10	0.125	3.175	0.089	2.261						
85298	9	0.137	3.480	0.098	2.489						
85294	8	0.160	4.064	0.114	2.896						
85146	7	0.174	4.420	0.124	3.150						
85063	6	0.200	5.080	0.143	3.632						
85213	5	0.221	5.613	0.158	4.013						
85236	4	0.252	6.401	0.180	4.572						
85243	3	0.277	7.036	0.198	5.029						
85246	2	0.316	8.026	0.226	5.740						
85255	1	0.349	8.865	0.249	6.325						
85326	0	0.392	9.957	0.280	7.112						

PEEKSHRINK™ TUBING PROPERTIES*			
PROPERTIES	ASTM	UNITS	
Tensile Modulus	D638	KSI	1,309
Tensile Stress at Yield	D638	PSI	14,503
Glass Transition Temp	D3418	°F / °C	321 / 161
Dielectric Strength	D149	V/mil	3570
Thermal Endurance	NEMA MW 1000	°F / °C	752 / 400
Crystallinity	D3814	%	40

*This data is based on PEEKshrink™ recovered on a 0.575" mandrel. Tubing performance and characteristics may change based on tubing size.

