



## OVERVIEW

PEEK, a linear, semi-crystalline aromatic polymer, is considered one of the highest performing thermoplastic materials because of its ability to 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. It is an alternative to traditional fluoropolymer protective coatings with its extremely wide working temperature range.



### SECONDARY/VALUE-ADD SERVICES:

#### Cut Lengths and Pieces

*PEEKshrink® provides a shrink-to-fit layer of protection and encapsulation for critical components.*



CONTINUOUS SERVICE TEMP



DIELECTRIC STRENGTH



ABRASION RESISTANCE

## APPLICATIONS

- Electrical component covering
- Medical device protection
- Wire and cable encapsulation or 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 of 1.4:1 and up
- 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 (500 °F / 260 °C)
- Extends life of the protected item
- Assures reliable performance
- Adhesion to metals
- Translucent recovery shrink temperature 572 °F to 644 °F (300 °C to 340 °C)
- Opaque recovery shrink temperature 680 °F to 725 °F (360 °C to 385 °C)



## INFORMATION OF NOTE

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	0.005	0.127	0.007	0.178	0.009	0.229
85184	15	0.055	1.397	0.039	0.991	0.005	0.127	0.007	0.178	0.009	0.229
85204	14	0.085	2.159	0.060	1.524	0.005	0.127	0.007	0.178	0.009	0.229
85197	13	0.092	2.337	0.065	1.651	0.005	0.127	0.007	0.178	0.009	0.229
85189	12	0.101	2.565	0.072	1.829	0.005	0.127	0.007	0.178	0.009	0.229
85313	11	0.112	2.845	0.080	2.032	0.005	0.127	0.007	0.178	0.009	0.229
85310	10	0.125	3.175	0.089	2.261	0.005	0.127	0.007	0.178	0.009	0.229
85298	9	0.137	3.480	0.098	2.489	0.005	0.127	0.007	0.178	0.009	0.229
85294	8	0.160	4.064	0.114	2.896	0.005	0.127	0.007	0.178	0.009	0.229
85146	7	0.174	4.420	0.124	3.150	0.005	0.127	0.007	0.178	0.009	0.229
85063	6	0.200	5.080	0.143	3.632	0.005	0.127	0.007	0.178	0.009	0.229
85213	5	0.221	5.613	0.158	4.013	0.005	0.127	0.007	0.178	0.009	0.229
85236	4	0.252	6.401	0.180	4.572	0.005	0.127	0.007	0.178	0.009	0.229
85243	3	0.277	7.036	0.198	5.029	0.005	0.127	0.007	0.178	0.009	0.229
85246	2	0.316	8.026	0.226	5.740	0.005	0.127	0.007	0.178	0.009	0.229
85255	1	0.349	8.865	0.249	6.325	0.005	0.127	0.007	0.178	0.009	0.229
85326	0	0.392	9.957	0.280	7.112	0.005	0.127	0.007	0.178	0.009	0.229

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.