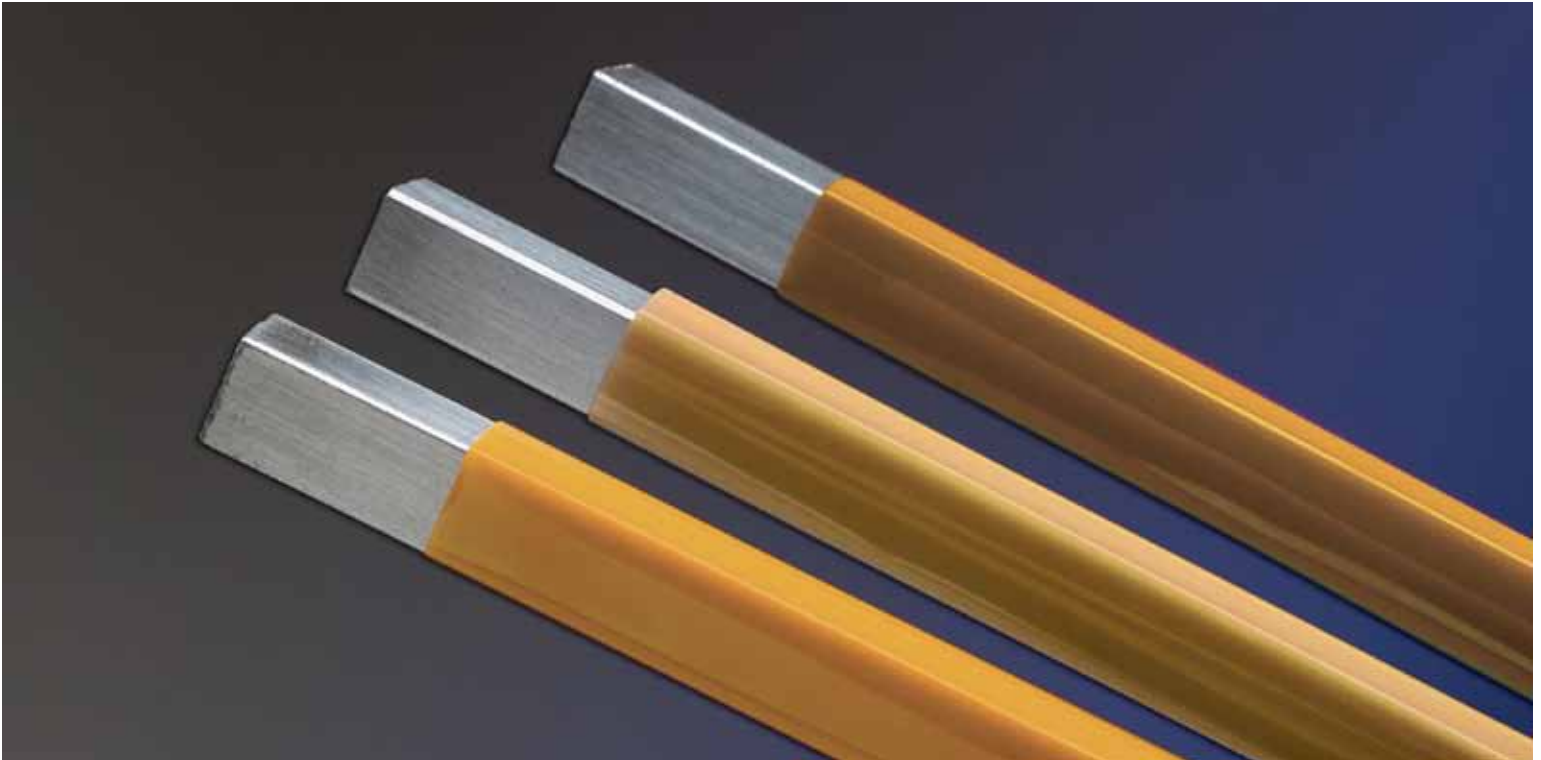




ADVANCED POLYMER SCIENCE FOR NEW TECHNOLOGIES



**Forms a highly protective, shrink-to-fit shield against abrasion, extreme temperatures, high pressure, and dielectric interference**

### Featured Polymer: **PEEKshrink®** PEEK Heat Shrinkable Tubing

PEEK, a linear, semi-crystalline aromatic polymer, is considered the highest performing thermoplastic material due to its ability to withstand extreme temperatures, high pressure and caustic fluids. Now Zeus has taken PEEK to an entirely new level of performance with the introduction of PEEKshrink® — PEEK heat shrinkable tubing.

PEEKshrink® provides a “shrink to fit” layer of protection for sensitive of critical components used in a variety of applications such as wire coating medical devices, electronics, telecom hardware and oil exploration equipment. The polymer’s inherent purity and lubricity make it an ideal choice.

An alternative to traditional protective coatings like Teflon or Kapton, PEEKshrink® is ideally suited for challenging environments where extreme heat or cold, intense pressure, chemicals, water, or dielectric interference pose a threat to wires and electrical components.

Capitalizing on more than 40 years of polymer experience, Zeus continues to provide superior products with the highest standards of quality and control.



### Features:

- Shrink temperature 626°F/330°C - 680°F/360°C
- Recovered wall range of 0.004" to 0.009"
- Custom sizes and lengths available upon request

### Benefits:

- Excellent abrasion resistance
- Extends life of the protected item
- Adhesion to metals
- Available in colors

### Sample Applications:

- Electrical component insulation
- Protective jacketing provides excellent abrasion resistance
- Wire Splicing
- Reusable medical devices

### Technical Notes:

- Zeus will assist in developing custom heatshrink processes
- Fillers available
- Class VI approved materials

PEEKshrink® 1.4:1 Heat Shrinkable AWG Tubing						
			Recovered Dimension After Shrinking			
			Wall Thickness			
Zeus P/N	Ordered as AWG Size	As Supplied Inside Diameter Min	Recovered ID Max	Minimum	Nominal	Maximum
85322	17	0.038	0.027	0.005	0.007	0.009
85318	16	0.045	0.032	0.005	0.007	0.009
85184	15	0.055	0.039	0.005	0.007	0.009
85204	14	0.085	0.060	0.005	0.007	0.009
85197	13	0.092	0.065	0.005	0.007	0.009
85189	12	0.101	0.072	0.005	0.007	0.009
85313	11	0.112	0.080	0.005	0.007	0.009
85310	10	0.125	0.089	0.005	0.007	0.009
85298	9	0.137	0.098	0.005	0.007	0.009
85294	8	0.160	0.114	0.005	0.007	0.009
85146	7	0.174	0.124	0.005	0.007	0.009
85063	6	0.200	0.143	0.005	0.007	0.009
85213	5	0.221	0.158	0.005	0.007	0.009
85236	4	0.252	0.180	0.005	0.007	0.009
85243	3	0.277	0.198	0.005	0.007	0.009
85246	2	0.316	0.226	0.005	0.007	0.009
85255	1	0.349	0.249	0.005	0.007	0.009
85326	0	0.392	0.280	0.005	0.007	0.009

\*\*Standard Put Up: 4ftLgth\*\*

#### 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 .575" mandrel. Tubing performance and characteristics may change based on tubing size.

#### PEEK™ Properties

Properties	ASTM	Units	
Tensile Modulus	D638	KSI	621
Tensile Stress at Yield	D638	PSI	13,488
Glass Transition Temperature	D3418	°F/°C	289/143
Dielectric Strength	D149	V/mil	>500
Flammability Rating	UL 94		VO
Radiation Resistance		MRad	up to 1000
Coefficient of Friction	D1894		.35 - .50
Elongation	D638	%	50

These properties are based on natural resin and are for reference only. Actual performance may vary.

### ▶ Advancing Your Ideas

Your ideas have the potential to transform the world. The right partners will help you make it happen. Talk to Zeus about how polymer science can advance your ideas. We welcome the opportunity to collaborate with you.