



PEEKshrink® Tubing Sizes & Description (in inches)

PEEKshrink® 1.4:1 Heat Shrinkable AWG Tubing  
Recovered Dimension After Shrinking  
Wall Thickness

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: 4foot Lgth (1.22 meters) \*\*

PEEKshrink® Tubing Properties

Properties	ASTM	Units	
Tensile Modulus	D638	KSI	1309
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 5.75" 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 Temp	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.

## **PEEKshrink® - Secures performance of sensitive items in challenging environments**

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 PEEK has been taken 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 or critical components used in a variety of applications such as medical devices, electronics, telecom hardware and oil exploration equipment. The polymer’s inherent purity and lubricity make it an ideal choice for analytical and life sciences applications.

An alternative to traditional protective coatings like Teflon, 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. When shrunk onto components, PEEKshrink® forms an impenetrable “second skin” that is impervious to contaminants, preserving the integrity and performance of whatever is inside.

### **Sample Applications**

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

### **Technical Notes**

- Ideal for shrinking on wire or round mandrels
- Shrink results can be achieved with a variety of heat shrink systems:
  - IR Oven
  - Convection Oven
  - Heat Gun
- We will assist in developing custom heat-shrink systems and processes

### **Features**

- Shrink temperature 625°F/329°C - 725°F/385°C
- Consistent shrink ratios of 1.2:1 and above
- Expanded ID range of 0.057” to 1.250”
- Recovered wall range of 0.004” to 0.010”

### **Benefits**

- High continuous service temperature (752°F/400°C) NEMA mw1000
- Extends life of the protected item
- Assures reliable performance
- Available in colors for identification purposes
- Available in cut lengths or continuous lengths, spooled

**Call Professional Plastics at (888) 995-7767 or  
E-Mail [sales@proplas.com](mailto:sales@proplas.com)  
Order Online at [www.professionalplastics.com](http://www.professionalplastics.com)**