BH-MT-PEEK-HS

Medical grade PEEK heat shrink tubing



Features/Applications

BH-MT-PEEK-HS heat shrink tubing is extruded from medical-grade PEEK resin, offering the highest continuous-use temperature and mechanical strength among medical shrink materials. It can withstand extreme temperatures, high pressure, and caustic fluids. It is mainly used for electrical component insulation, medical device protection, wire and cable encapsulation and insulation, impact- and wear-resistant insulation, mandrel covering, and similar applications.

- Shrink Ratio: up to 1.4:1
- Adhesion to metals
- Fully recovery temperature: +300℃~ +340℃
- Operating temperature: -70℃~+260℃
- ISO 10993 and USP Class VI compliant
- Compatibility with steam, gamma, EtO & E-beam sterilization
- Standard color: brownish transparent (Natural)

Technical Data

Property	Test Method	Typical Data
Longitudinal change	UL224	≤5%
Cold bend	UL224	No cracking at −70°C
Dielectric strength	UL224	≥60 kV/mm
Volume resistivity	UL224	≥5×10¹⁵ Ω·cm
Tensile strength	ASTM D2671	≥70 MPa
Elongation at break after aging	ASTM D 2671(175˚C/168 hrs)	≥ 80%

Product Dimensions

Model	Expanded ID (Min)		Recovered ID (Max)		Recovered WT	
	Inch	mm	Inch	mm	Inch	mm
BH-MT-PEEK-HS-17	0.038	0.97	0.027	0.69	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-16	0.045	1.14	0.032	0.81	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-15	0.055	1.40	0.039	0.99	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-14	0.085	2.16	0.060	1.52	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-13	0.092	2.34	0.065	1.65	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-12	0.101	2.57	0.072	1.83	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-11	0.112	2.84	0.080	2.03	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-10	0.125	3.18	0.089	2.26	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-9	0.137	3.48	0.098	2.49	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-8	0.160	4.06	0.114	2.90	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-7	0.174	4.42	0.124	3.15	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-6	0.200	5.08	0.143	3.63	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-5	0.221	5.61	0.158	4.01	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-4	0.252	6.40	0.180	4.57	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-3	0.277	7.04	0.198	5.03	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-2	0.316	8.03	0.226	5.74	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-1	0.349	8.86	0.249	6.32	0.008 ± 0.002	0.20±0.05
BH-MT-PEEK-HS-0	0.392	9.96	0.280	7.11	0.008 ± 0.002	0.20±0.05