

HeBran

Insulate
Penetrate
Seal
Protect

2:1
Shrink Ratio

Thin Wall Cross-linked Polyolefin

Flexible, multi-purpose heat shrink fittings

Features and Benefits

- 2:1 shrink ratio
- Flame retardant (Colors)
- Resistant to common fluids and solvents
- Economical mechanical protection for terminal strain relief and wire bundling
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C
- Standard colors: Clear, Black, Red, White, Blue, Yellow & Green



Standards

- Meets UL 224, 125°C (colors only); CSA C22.2 No. 198.1, 125°C; SAE-AMS-DTL-23053/5, Class 1 and 2, AMS 3636 and 3637; DEF STAN 59-97, Issue 3, Type 2a

Typical Applications

- Electrical cable entry shrink boot fittings for control panels, and bulkhead penetrations
- Strain relieving wire supporting and securing cable harnessing
- Protects wire or cables from fatigue abrasion and the unintended ingress of vapors & fluids

Ordering

- Call (336) 579-4217 for current pricing and availability
- (Unless Pre-Ordering) Please allow for a lead time of 2 weeks for orders over 1000 pieces.



HeBran Thin Wall Cross-linked Polyolefin

Boots

Dimensions subject to part geometry

Technical Data

Property	Test Method	Requirement	Typical Performance	Units
Physical				
Tensile Strength	ASTM D638	1,500 (10.3) minimum	2,453 (16.91)	psi (MPa)
Elongation	ASTM D638	200 minimum	510	percent
Low Temperature Flexibility	4 hrs at -67 °F (-55 °C)	No cracking	No cracking	
Heat Shock	4 hrs at 482 °F (250 °C)	No cracks, flowing or dripping	No cracks, flowing or dripping	
Heat resistance:	168 hrs at 250 °F (121 °C)			
Ultimate elongation	ASTM D412	100 minimum	505	percent
Electrical				
Dielectric Strength	ASTM D2671	500 (19.7) minimum	1,570 (62)	volts/mil (Kv/mm)
Volume Resistivity	ASTM D876	1 x 10 ¹⁴ minimum	6.49 x 10 ¹⁴	Ohm-cm
Chemical				
Corrosion	16 hrs at 347 °F (175 °C)	No corrosion	No corrosion	
Water absorption	24 hrs at 73 °F (23 °C)	0.5 maximum	0.09	percent
Flammability	ASTM D2671, Procedure B	Class 1 - Self extinguishing 1 minute; 25% maximum flag burnt Class 2 - N/A	Pass	
Fluid resistance: (Hydraulic fluid (petroleum base), JP-8, Lubricating oil, 5 percent NaCl, Deicing fluid)				
	24 hrs immersion at 75 °F (24 °C)			
Tensile strength	ASTM D412	1,000 (6.9) minimum	1,275 (8.8)	psi (MPa)
Dielectric strength	ASTM D2671	400 (15.8) minimum	861 (33.9)	volt/mil (Kv/mm)
Fungus resistance	ASTM G21	No growth	No growth	

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USA: 336-579-4217

HeBran Heat Shrink

www.HeBran.com