



# BIRMINGHAM SPECIALITIES

## POLYOLEFIN SLEEVING

Birmingham Specialities Polyolefin Sleevings is our most popular heat shrink option predominantly used in electrical applications.

Polyolefin offers excellent electrical insulation properties, strain relief as well as good flame retardancy characteristics. Meeting the most stringent rail and military standards.



### MECHANICAL PROPERTIES

Operating Temperature	-55°C to +135°C
Electrical Insulation	Excellent
UV Resistance	Poor

### TYPICAL PROPERTIES

Longitudinal Change	± 10%
Tensile Strength	≥ 11MPa
Elongation	≥ 300%
Density at 23°C	≤ 1.40g/cm <sup>3</sup>
Heat Shock (4h at 250°C)	Pass
Low Temperature Flexibility (4h at -55°C)	No Crack
Secant Modulus	≤ 173Mpa

### ENVIRONMENTAL PROPERTIES

Flame Retardancy	Good
------------------	------

### ELECTRICAL PROPERTIES

Dielectric Strength	≥ 19.7kV/mm
Volume Resistivity	≥ 1 x 10 <sup>14</sup> Ω-cm

### CHEMICAL PROPERTIES

Fluid Resistance (24h at 24°C) - Tensile Strength	≥ 6.8MPa
Fluid Resistance (24h at 24°C) - Dielectric Strength	≥ 15.8kV/mm
Corrosion - Copper	No Corrosion
Corrosion - Copper Mirror	No Corrosion
Fungus Resistance	No Growth

Material Specification to MIL-I-23053/4 Class 3