

# PTFE Sleeving

## ABOUT THIS PRODUCT

PTFE is extremely stable at high temperatures and can be used continuously up to 260°C. It also can perform at cryogenic temperatures and has been used in outer space at temperatures approaching absolute zero. Being virtually inert and possessing unique electrical properties, it is particularly suited for use in demanding wiring applications.



## FEATURES AND BENEFITS

- Very low coefficient of friction
- Anti-stick
- Flexible
- High chemical resistance
- Extreme low temperature capabilities
- Non flammable
- Hydrophobic (repels water)
- Ozone resistant
- U.V. resistant
- Fungus resistant
- UL94 V0 Fire resistance

## APPLICATIONS

- Electrical insulation
- Cryogenics
- Aerospace
- Cable marking
- Thermocouples

## MATERIAL DATA

Product Code	170
Material	PTFE
Standard Colour	Natural, Black, Red, Yellow, Blue
Operating Temperature – °C	-70 – +260
Elongation at Break – %	350
Dielectric Strength – kV	40 – 80 (safe figure 40)
Relevant Specifications	BS2848 Type 6 Class 250T, BS EN 60684, BS 6564

## TECHNICAL TABLE

Dielectric Strength	40 – 80kV (safe figure 40kV)		ASTM D149
Volume Resistivity	10 <sup>18</sup> Ωcm		ASTM D257
Surface Resistance	10 <sup>17</sup> Ω		ASTM D257
<b>Mechanical Properties</b>			
Tensile Strength	Longitudinal	33 N/mm2	DIN 53455
	Transverse	31 N/mm2	ASTM D1457-81
Elongation at Break	Longitudinal	350%	DIN 53455
	Transverse	610%	ASTM D1457-81
Density	2.15 g/cm <sup>3</sup>		ASTM D1457-81
Shrinkage	Longitudinal	11%	
	Transverse	15%	
Shore Hardness	D 55		ASTM D2240
<b>Thermal Properties</b>			
Service Temperature Range	-70°C to +260°C		
Melting Range	320°C to 340°C		DTA
Thermal Conductivity	0.25 – 0.50W/m.K		Din 52616