

61742460	<b>DATA SHEET</b>
Valid from: 17.09.2018	<b>Shrink tube PROTECT-M</b>

### Shrink tubes PROTECT-M



#### General Description:

- Medium wall, dual wall, polyolefin heat shrink tubing with an excellent adhesive for environmental protection and insulation for various aerial and underground telecom and power applications.

#### Technical data:

- Very good strain relief, impact and abrasion resistant
- Strong and perfectly encapsulating adhesive
- High shrink ratio
- Halogen free
- UV resistant
- Shrink temperature > 110°C
- Operating temperature -40°C to +120°C
- Standard available in 1 meter lengths

#### Dimensions:

Size mm	Min. ID supplied mm	Max. ID recovered mm	Recovered wall thickness (NOM) mm
8/2	8	2	2.00
12/3	12	3	2.20
22/6	22	6	2.30
33/8	33	8	2.60
40/12	40	12	2.60
55/17	55	17	2.90
65/19	65	19	3.15
72/22	72	22	3.15
92/26	92	26	3.15
115/35	115	35	3.35
140/45	140	45	3.40
160/55	160	55	3.40
180/60	180	60	3.50
200/65	200	65	3.50
235/65	235	65	3.50

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**Normative:**

ISO 8580 UV Resistance

**Colour:**

Black

**Physical properties:**

Description	Test method	Typical value
Tensile strength	ASTM D 638	12 N/mm <sup>2</sup>
Elongation at break	ASTM D 638	400%
Longitudinal change	ASTM D 2671	-10% to 0%
Water absorption	ASTM D 570	0.12%
Specific gravity	ASTM D 792	1.08

**Electrical properties:**

Description	Test method	Typical value
Dielectric strength	ASTM D 2671	15 kV/mm
Volume resistivity	ASTM D 257	10 <sup>14</sup> ohm cm
<b>Adhesive properties</b>		
Water penetration	-	No penetration after 235 hours immersion at 23°C
Softening point	ASTM E28	90°C
Peel strength ASTM D1000	PE	7 N/ mm
	Aluminium	7 N/ mm

**Chemical properties:**

Description	Test method	Typical value
Fungus resistance	ISO R 46 (A)	rate I
Copper corrosion	ASTM D 2671 B	no corrosion
UV Resistance 500 hours at 60°C	ISO 8580	no cracking, no colour change

**Thermal properties:**

Description	Test method	Typical value
Heat shock 4 hours at 225°C	ASTM D 2671	no dripping, cracking or flowing
Heat aging 168 hours at 150°C	ASTM D 638	elongation 300%
Low temp. flexibility at -55°C	ASTM 2671 C	no cracking

**Foot note:**

Photographs are not to scale and do not represent detailed images of the respective products.