

## HIGH-SHRINK RATIO HEAT SHRINK TUBE



High-Shrink Ratio HS Tube (GMW 5x) is manufactured from high quality cross inked polyolefin material.

### Application :

- Ideal for applications where there is a large dimensional difference between the cables, connectors and components.
- Enables the Tube to cover the large-size transitions between cables, cable connectors and back shells, thus simplifying repairs of damaged cable as well as sealing the back end of the connectors.

### Features & Benefits :

- High shrink ratio up to 5:1
- Optional hot melt adhesive lining for complete environmental protection and insulation
- Excellent resistance to weathering, UV rays, chemicals and solvents
- Meets RoHS Compliance | Halogen Free
- Meets IP 68 (Ingress Protection)

Product Code	D min. (mm.)	d max. (mm.)	T +/- 10 % (mm.)
GMW 5x 30/6	30	6	4.3
GMW 5x 40/8	40	8	4.3
GMW 5x 50/10	50	10	4.3
GMW 5x 60/12	60	12	4.5
GMW 5x 75/15	75	15	4.5
GMW 5x 90/18	90	18	4.5
GMW 5x 105/21	105	21	5.0
GMW 5x 115/23	115	23	5.0
GMW 5x 130/26	130	26	5.0
GMW 5x 140/28	140	28	5.0
GMW 5x 160/32	160	32	5.0

### Technical Specification

PROPERTIES	VALUE	STANDARD
<b>Physical</b>		
Tensile Strength	12 N/mm <sup>2</sup> (Mpa) (min.)	ASTM D638
Ultimate Elongation	350 % (min.)	ASTM D638
Density	1.0± 0.2 gm/cm <sup>3</sup>	ASTM D792
Longitudinal Change	-10% (max.)	ASTM D2671
Hardness	45 ± 10 Shore D	ASTM D2240
Water Absorption	0.5 % (max)	ASTM D570
<b>Thermal</b>		
Accelerated Ageing	(150°C for 168 Hrs.)	ASTM D2671
Tensile Strength	10 N/mm <sup>2</sup> (Mpa) (min)	ASTM D638
Ultimate Elongation	300% (min.)	ASTM D638
Low Temperature Flexibility (-40°C for 4 Hrs.)	No Cracking	ASTM D2671
Heat Shock (250°C for 30 Min.)	No Cracking or Flowing	ESI 09-11
Shrink Temperature	125°C	IEC 216
Continuous Temperature Limit	-40 to +110°C	IEC 216
<b>Electrical</b>		
Dielectric Strength (2mm Wall)	12 kV/mm. (min.)	ASTM D149
Volume Resistivity	1 x 10 <sup>13</sup> Ohm. cm (min.)	ASTM D257
Dielectric Constant	5 (max.)	ASTM D150
<b>Weathering</b> : The material from which Medium and Heavy wall tubings are manufactured contains carbon black to protect it from UV light.		

Technical Qualification Report : QR 1013

### Ordering Information

