

# HellermannTyton

## DATA SHEET

H, TH &HH: Helsyn

### DESCRIPTION

The Helsyn range of tubing is extruded from a specially formulated polychloroprene rubber compound that offers excellent elastomeric properties. Helsyn markers can be indelibly marked to requirement and can be supplied fully or semi-severed.

### APPLICATION

The sleeves and markers are ideally suited for the binding and identification of cable harnesses where a high degree of expansion may be required (x 5D whilst fitting and x 2D in service).

It can be used in Aerospace, Automotive, Construction, Consumer Electronics, Defence, Mass Transit and Telecommunications applications.

### PROPERTIES

| Properties                                                                    | Typical Results                                      | Test Method  |
|-------------------------------------------------------------------------------|------------------------------------------------------|--------------|
| Material                                                                      | Polychloroprene                                      |              |
| Continuous Operating Temp                                                     | -65 °C to +95 °C                                     | IEC 216      |
| Intermittent Temperature                                                      | +120 °C                                              |              |
| Flammability                                                                  | HB                                                   | UL 94 (3mm)  |
| Oxygen Index                                                                  | 28.3                                                 | BS 2782:M143 |
| Proof Voltage                                                                 | 4KV                                                  | BS G 198-1   |
| Volume Resistance                                                             | $10^{12} \Omega$                                     | BS G 198-1   |
| Resistance to<br>Acids<br>Alkalis<br>Oils<br>Fuels<br>Moisture<br>UV<br>Ozone | Good<br>Good<br>Good<br>Good<br>Good<br>Good<br>Good | BS G 198-1   |
| Shelf Life (<40 °C)                                                           | 7 + 3 years                                          |              |
| Colours                                                                       | Standard resistor<br>colour code & Pink              |              |

### STANDARDS

Approved to: BS G 198-1 T 1, Def-Stan 59-15 T D2a, 2b, 2c

Conforms to: BS3858 T 1



Issue 4

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| TH/HH/H | NOMINAL DIMENSIONS (MM) |            |           |            |
|---------|-------------------------|------------|-----------|------------|
|         | ØA                      | TH<br>WALL | H<br>WALL | HH<br>WALL |
| 5       | 0.5                     | 0.50       | 0.70      |            |
| 8       | 0.8                     | 0.50       | 0.80      |            |
| 10      | 1.0                     | 0.50       | 0.80      |            |
| 12      | 1.2                     | 0.50       | 0.80      |            |
| 15      | 1.5                     | 0.60       | 0.80      |            |
| 20      | 2.0                     | 0.60       | 0.80      |            |
| 25      | 2.5                     | 0.60       | 0.80      | 1.70       |
| 30      | 3.0                     | 0.60       | 0.80      |            |
| 40      | 4.0                     | 0.80       | 1.05      | 1.50       |
| 50      | 5.0                     | 0.80       | 1.05      | 1.50       |
| 60      | 6.0                     |            | 1.05      |            |
| 75      | 7.5                     | 0.90       | 1.25      |            |
| 100     | 10.0                    | 1.00       | 1.50      |            |
| 120     | 12.0                    | 1.05       | 1.60      |            |
| 150     | 15.0                    | 1.15       | 1.70      |            |
| 160     | 16.0                    | 1.20       | 1.80      |            |
| 200     | 20.0                    | 1.20       | 2.05      |            |
| 250     | 25.0                    |            | 2.05      |            |

