

# Product data sheet

# 3CI460

Semi conductive nonwoven waterblocking foam tape

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## Description

- Water swellable powder applied between a semi conductive nonwoven layer and foam layer
- Good swelling and excellent blocking performance.
- Preferential swelling direction indicated on the product label.
- Excellent bedding and screen fixation performance.
- Good temperature resistance.

## Technical Data

| Properties (23 °C, 50% RH)            | Value (nominal)  | Unit             | International standard (Lantor test method) |
|---------------------------------------|--|------------------|---|
| Mass per unit area                    | <b>225</b>   | g/m <sup>2</sup> | ISO 9073-1                                  |
| Thickness                             | <b>1.6</b>   | mm               | ISO 9073-2                                  |
| Tensile strength                      | <b>60</b>  | N/cm             | ISO 9073-3                                  |
| Elongation                            | <b>14</b>  | %                | ISO 9073-3                                  |
| Specific length resistance            | <b>100</b>   | Ωcm              | DIN 54345 Part 5                            |
| Volume resistivity                    | <b>20</b>  | kΩcm             | DIN 54345 Part 1                            |
| Swelling speed (1 <sup>st</sup> min.) | <b>5</b>   | mm/min           | HD 605 SI/AI (KE100)                        |
| Swelling height                       | <b>15</b>  | mm               | HD 605 SI/AI (KE100)                        |
| Service temperature                   | ≤ <b>90</b>  | °C               | IEC 60216 (TIS 045)                         |
| Processing temperature                | ≤ <b>225</b>   | °C               | (Technical Information Sheet 045)           |
| Moisture content (ex work)            | <b>6</b>   | %                | 110°C IR drying (TIS 045)                   |
| Composition                           | Polyester<br>Polyacrylate/Polyethylene<br>Polyurethane foam<br>Carbon impregnation<br>Water swellable powder |                  |   |

## Application

- Where extreme bedding and screen fixation and waterblocking of large gaps is required e.g.
- Over an insulation screen.
- Under and or over a metal tape or wire screen. Swelling side facing the screen wires.
- Under a folded and sealed aluminium sheath.
- Under an extruded lead sheath or welded or extruded aluminium sheath.
- Under a corrugated Al sheath or steel armour.

## Make up

| Standard *     |    | Pads         |         |         |      | Spools         |
|----------------|----|--------------|---------|---------|------|----------------|
| Slit width     | mm |              | 21 ÷ 30 | 31 ÷ 50 | ≥ 51 | 12 ÷ 50        |
| OD pad / spool | mm |              | ≤500    | ≤600    | ≤800 | ≤500           |
| ID core        | mm | 77, 102, 153 |         |         |      | 77, 153        |
| Core width     | mm | slit width   |         |         |      | ≤500           |
| Wound width    | mm |              |         |         |      | Core width -20 |

\*) Other available dimensions on request

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