



# USB Protector Head FH 240

Highly breathable membrane  
Riwega | eternitycomfort

Technical data sheet  
of 15/02/2021  
Art. 1,5m 02050224 / 3,0m 02050224  
Rev.05 of 13/02/2024

|  |  |       |   |
|--|--|-------|---|
| Material   | PP-composite                                       |       | <br>EN 13859-1 |
| Film   | UV50 PUR   |       |   |
| Colour   | Light tobacco                                      |       |   |
| Durability under integrated FTV                          | Yes  |       |                |
| Roll width   | 1,5 m  | 3,0 m |   |
| Roll length  | 50 m   |       |   |
| Roll weight  | 18 Kg  | 36 Kg |   |
| Classification in accordance with UNI 11470 (IT)         | A  |       |   |
| Classification in accordance with ZVDH (DE)              | UDB-A - USB-A                                      |       |   |
| Classification in accordance with SIA 232 (CH)           | UD AB-EB-NB  |       |   |
| Classification in accordance with DTU (FR)               | 40.29  |       |   |
| Classification in accordance with Önorm B4119/B3661 (AT) | Typ II   |       |   |
| Available in TOP SK version                              | Art.TOP SK 1,5m 02020224/Art.TOP SK 3,0m 020202240 |       |   |

| PROPERTIES                                      | METHOD           | UNITS                  | NOMINAL VALUE              |
|---|------------------|------------------------|----------------------------|
| Areal mass                                      | EN 1849-2        | g/m <sup>2</sup>       | 240 (±10g/m <sup>2</sup> ) |
| Air layer equivalent to the vapour passage [Sd] | EN 1931          | m                      | 0,1                        |
| Water vapour diffusion [DVA]                    | EN ISO 12572     | g/m <sup>2</sup> / 24h | approx. 200                |
| Water column                                    | EN 20811         | cm                     | > 800                      |
| Heavy rain test                                 | TU Berlin        | -                      | Passed                     |
| Resistance to water penetration                 | EN 1928 (Met. A) | -                      | W1                         |
| Tensile strength MD*                            | EN 12311-1       | N/50mm                 | 390 (±40N/50mm)            |
| Tensile strength CD*                            | EN 12311-1       | N/50mm                 | 290 (±40N/50mm)            |
| Elongation MD*                                  | EN 12311-1       | %                      | 30 (±30%)                  |
| Elongation CD*                                  | EN 12311-1       | %                      | 50 (±30%)                  |
| Resistance to tearing MD*                       | EN 12310-1       | N                      | 300 (±30N)                 |
| Resistance to tearing CD*                       | EN 12310-1       | N                      | 400 (±30N)                 |
| Fire reaction                                   | EN 13501-1       | Class                  | E                          |
| UV-stability                                    | -                | Months                 | 8                          |
| Temperature resistance                          | -                | °C                     | -40 / +120                 |

## After artificial ageing

|                                 |                  |        |       |
|---------------------------------|------------------|--------|-------|
| Resistance to water penetration | EN 1928 (Met. A) | -      | npd** |
| Tensile strength MD/CD*         | EN 12311-1       | N/50mm | npd** |
| Elongation MD/CD*               | EN 12311-1       | %      | npd** |

|                                   |              |                   |                         |
|-----------------------------------|--------------|-------------------|-------------------------|
| Density                           | EN 1849-1    | Kg/m <sup>3</sup> | 258                     |
| Thickness                         | EN 1849-2    | mm                | 0,93                    |
| Vapour resistance coefficient [μ] | EN ISO 12572 | -                 | 108                     |
| Vapour permeability coefficient   | -            | Kg/m*s*Pa         | 1,787*10 <sup>-12</sup> |
| Thermal conductivity [λ]          | -            | W/mK              | 0,22                    |
| Specific heat                     | -            | J/KgK             | 1700                    |

\*MD= Machine Direction; CD= Cross Direction

\*\*npd=no performance determined

Riwega S.r.l. reserves the possibility to review or change these technical values. The updated technical data sheet can be found on the website [www.riwega.com](http://www.riwega.com). This data sheet replaces the previous copy.