

# USB Fire Zero

High breathable membrane with fireproof surface finishing  
Riwega | eternitycomfort

Rev.03

Technical data sheet

of 27/06/2018  
Art. 02010341  
of 27/03/2024

|                                                          |                 |                                                                                                           |
|----------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------|
| Material                                                 | PP.PP.Graphite  | <br>EN 13859 - 1       |
| Film                                                     | PP              |                                                                                                           |
| Colour                                                   | Anthracite gray |                                                                                                           |
| Durability under integrated FTV                          | Yes             |                                                                                                           |
| Roll width                                               | 1,1 m           | <br>10 years guarantee |
| Roll length                                              | 20 m            |                                                                                                           |
| Roll weight                                              | 16 Kg           |                                                                                                           |
| Classification in accordance with UNI 11470 (IT)         | A               |                                                                                                           |
| Classification in accordance with Önorm B4119/B3661 (AT) | Typ II          |                                                                                                           |
| Conforms to DTU (FR)                                     | 40.29           |                                                                                                           |

| Properties                                      | Method                                                                                         | Units                                  | Nominal value             |
|-------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------|
| Areal mass                                      | EN 1849-2                                                                                      | g/m <sup>2</sup>                       | 720 (±5%)                 |
| Air layer equivalent to the vapour passage [Sd] | EN ISO 12572                                                                                   | m                                      | 0,08                      |
| Water vapour diffusion [DVA]                    | EN ISO 12572                                                                                   | g/m <sup>2</sup> / 24h                 | ca.250 (±15%)             |
| Water column                                    | EN 20811                                                                                       | cm                                     | > 200                     |
| Resistance to water penetration                 | EN 1928 (Met. A)                                                                               | -                                      | W1                        |
| Tensile strength MD*                            | EN 12311-1                                                                                     | N/50mm                                 | 300 (±15%)                |
| Tensile strength CD*                            | EN 12311-1                                                                                     | N/50mm                                 | 275 (±15%)                |
| Elongation MD*                                  | EN 12311-1                                                                                     | %                                      | 2-3                       |
| Elongation CD*                                  | EN 12311-1                                                                                     | %                                      | 2-3                       |
| Resistance to tearing MD*                       | EN 12310-1                                                                                     | N                                      | 180 (±15%)                |
| Resistance to tearing CD*                       | EN 12310-1                                                                                     | N                                      | 220 (±15%)                |
| Fire reaction                                   | EN 13501-1<br><b>Test method</b><br>EN 11925-2/EN 13823 (SBI)<br>EN 13501-5<br>UNI CEN/TS 1187 | Class<br><br>Class                     | B s1 d0<br><br>Broof (t2) |
| UV-stability                                    | Internal test, UVB                                                                             | Months                                 | 6                         |
| Flexibility at low temperatures                 | EN 13859-1                                                                                     | °C                                     | -20                       |
| Dimensional stability MD/CD*                    | EN 13859-1 (80°C)                                                                              | %                                      | -1<ΔL<0                   |
| Resistance to air penetration                   | EN 12114 Δp max 100Pa                                                                          | m <sup>3</sup> /(m <sup>2</sup> h50Pa) | <0,3                      |

## After artificial aging

|                                 |                  |        |                  |
|---------------------------------|------------------|--------|------------------|
| Resistance to water penetration | EN 1928 (Met. A) | -      | W1               |
| Tensile strength MD/CD*         | EN 12311-1       | N/50mm | 285 / 234 (±15%) |
| Elongation MD/CD*               | EN 12311-1       | %      | 2-3 / 2-3        |

## Data for hygrotermic calculation

|                                   |              |                   | Graphite    | Polypropylene |
|-----------------------------------|--------------|-------------------|-------------|---------------|
| Density                           | EN 1849-1    | Kg/m <sup>3</sup> | 1029        | 1440          |
| Thickness                         | EN 1849-2    | mm                | 0,7         | 0,5           |
| Vapour resistance coefficient [μ] | EN ISO 12572 | -                 | 114         | 160           |
| Vapour permeability coefficient   | -            | Kg/m*s*Pa         | 1,693*10-12 | 1,2063*10-12  |
| Thermal conductivity [λ]          | -            | W/mK              | 4,9         | 0,22          |
| Specific heat                     | -            | J/KgK             | 691         | 1700          |

\*MD= Machine Direction; CD= Cross Direction

Accessories: Fire Zero Liquid Art. 02010342 - water-based paint based on graphite to waterproof the joints with USB Fire Zero

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.