



# USB Protector FH 165 PET

Highly breathable membrane

Riwega | eternitycomfort

Article	02050216	Technical data sheet of 17/06/2026 Revision -- of --
Article TOP SK (integrated double adhesive strip)	02020332	
Roll size	1,5 x 50 m	
Roll weight	~ 14 kg	
Material	PET.PUR.PET	 EN 13859-1 EN 13859-2
Film	UV 30 PUR	
Colour	Light tobacco	

STANDARDS AND REGULATIONS	CLASSIFICATION	
UNI 11470:2015 (Italy)	B	
ZVDH (Germany)	UDB-USB	
Önorm B4119/B3661 (Austria)	Typ I	
SIA 232 (Switzerland)	UD EB-NB	
DTU 40.29 (France)	Compliant	

CHARACTERISTICS	STANDARD	UNIT OF MEASURE	VALUE
Areal mass	EN 1849-2	g/m <sup>2</sup>	165 (±10g/m <sup>2</sup> )
S <sub>d</sub> value	EN ISO 12572	m	0,07 (-0,02/+0,05 m)
Water vapour diffusion (DVA)	EN ISO 12572	g/m <sup>2</sup> /24h	~ 500
Water column	EN 20811	cm	> 800
Heavy rain test	TU Berlin	-	Passed
Watertightness	EN 1928 (Met. A)	-	W1
Resistance of joints to water penetration	EN 1928 (Met. A Att. F)	-	Passed
Tensile strength MD/CD*	EN 12311-1	N/50mm	300 / 220 (±40N/50mm)
Elongation at break MD/CD*	EN 12311-1	%	35 (±10%)
Nail tear resistance MD/CD*	EN 12310-1	N	120 (±20) / 130 (±30)
Straightness	EN 1848-2	< 30mm/10m	Passed
Flexibility at low temperature	EN 1109	°C	- 40
Hazardous substances	EU 1907:2006	-	None
Dimensional stability MD/CD*	DIN EN 1107-2:2001	%	< 1
Air permeability	DIN EN 12114:2000	m <sup>3</sup> /(m <sup>2</sup> ·h)	< 0,01
Fire reaction	EN 13501-1	Class	E
Maximum UV exposure period**	-	Weeks	32
Temperature resistance	-	°C	- 40 / + 100
Temporary weather protection***	ZVDH (DE)	Weeks	10

### After artificial ageing (test at 80°C according to ZVDH)

Watertightness	EN 1928 (Met. A)	-	W1
Tensile strength MD/CD*	EN 12311-1	-	> 65% (of the initial value)
Elongation at break MD/CD*	EN 12311-1	-	> 65% (of the initial value)

Density	EN 1849-1	Kg/m <sup>3</sup>	206
Thickness	EN 1849-2	mm	0,8 (±0,1mm)
Vapour resistance coefficient (μ)	EN ISO 12572	-	88
Vapour permeability coefficient	-	Kg/m·s·Pa	2,29·10 <sup>-12</sup>
Thermal conductivity (λ)	-	W/mK	0,22
Specific heat	-	J/KgK	1700

\*MD = Machine Direction; CD = Cross Direction

\*\*Based on Central European climate conditions

\*\*\*Proper installation in accordance with applicable standards and instructions