

USB Weld AS




Highly breathable membrane for hot or cold welding with non-slip surface
Riwega | eternitycomfort

Technical data sheet

of 17/10/2019

Art. Nr. 02010354 / 3M 020103540

Rev.04 of 06/03/2023

Material	PU.PET.PU		
Colour	Grey		
Durability under integrated FTV	Compatible**		
Roll width / length	1,50 m / 30 m	3,00 m / 30 m	EN 13859-1
Roll weight	16 kg	32 kg	
Classification in accordance with UNI 11470 (IT)	A		
Classification in accordance with ZVDH (DE)	UDB-A - USB-A		
Classification in accordance with SIA 232-1 (CH)	UD AB-EB-NB		
Classification in accordance with Önorm B4119/B3	Typ II		
Conforms to DTU (FR)	40.29		
			

PROPERTIES	METHOD	UNITS	NOMINAL VALUE
Areal mass	EN 1849-2	g/m ²	345 (±15 g/m ²)
Sd value	EN ISO 12572	m	0,3 (-0,05/+0,1m)
Water vapour diffusion [DVA]	EN ISO 12572	g/m ² / 24h	ca.115
Water column	EN 20811	cm	>800
Heavy rain test	TU Berlin	-	Passed
Cold weldability	-	-	With solvent THF Welding Liquid (Art. 02010352)
Hot weldability	-	-	Hot air with temperatures from 200 °C to 300 °C
Resistance to water penetration	EN 1928 (Met. A)	-	W1
Tensile strength MD*	EN 12311-1	N/50mm	350 (-35/+40N/50mm)
Tensile strength CD*	EN 12311-1	N/50mm	430 (-30/+90N/50mm)
Elongation MD*	EN 12311-1	%	45 (±10%)
Elongation CD*	EN 12311-1	%	50 (-10/+15%)
Resistance to tearing MD*/CD*	EN 12310-1	N	280/250 (-40/+30N)
Fire reaction	EN 13501-1	Class	E
UV-stability	-	Months	3***
Temperature resistance	-	°C	-40 / +90
Flexibility at low temperature	EN 1109 / EN 495-5	°C	-20
Dimensional stability	EN 1107-2	%	-2
After artificial ageing			
Resistance to water penetration	EN 1928 (Met. A)	-	W1
Tensile strength MD/CD*	EN 12311-1	N/50mm	320 / 400
Elongation MD/CD*	EN 12311-1	%	40 / 45
Density	EN 1849-1	Kg/m ³	383
Thickness	EN 1849-2	mm	0,9
Vapour resistance coefficient [μ]	EN ISO 12572	-	333
Vapour permeability coefficient	-	Kg/m*s*Pa	0,5796*10 ⁻¹²
Thermal conductivity [λ]	-	W/mK	0,22
Specific heat	-	J/KgK	1700

* MD= Machine Direction; CD= Cross Direction.

Accessories: USB WELDING STRIP Art. 02010353 - connecting strips of the same material with 0.3 x 10 m format for junctions and perimeters, SEAL INT Art. 020103531 e SEAL EXT Art. 020103532 - Prefabricated internal and external corner, SEAL DD Art. 020103530 - Hot or cold weldable sealing collar

** The product is suitable for installation with maximum operating temperatures up to 90 ° C. If this limit is not exceeded, the product can be used under photovoltaic systems. It is necessary to ensure that the ventilation cross-sections and the ventilation openings are fully functional for all types of roofing and in particular for photovoltaic systems, in order to prevent overheating. Furthermore, due to the installation way of photovoltaic system that can include crevices between two panels, it is necessary to exclude USB Weld AS as the main impermeable layer. USB Weld AS must therefore always represent the second level of waterproofing layer and as such must also be entirely protected from direct exposure to UV rays.

***Attention! Welding of all overlaps must be completed within 14 days after installation of the membrane. Protect in the meantime, if necessary, with a temporary cover sheet.

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. This data sheet replaces the previous copy.