

LEADAX ORIGINAL TECHNICAL DATASHEET

Dimensions

Characteristic	Method	Units	Value
Length	EN 1848-2	m	6
Width	EN 1848-2	mm	150-1000 ± 1%
Thickness	EN 1848-2	mm	3,0 ± 0,2
Mass	EN 1848-2	kg/m ²	3,85 ± 10%
Dimensional stability	EN 1107-2	%	0,0

Mechanical and tensile properties

Characteristic	Method	Units	Value
Maximum tensile force length direction	EN 12311-2	N/50 mm	500
Maximum tensile force width direction	EN 12311-2	N/50 mm	1200
Elongation at break length direction	EN 12311-2	%	80
Elongation at break width direction	EN 12311-2	%	15
Tear resistance length direction	EN 12310-1	N	400
Tear resistance width direction	EN 12310-1	N	400
Static loading (method B)	EN 12730	kg	20
Impact resistance (method B)	EN 12691	mm	2000
Hail resistance (hard support)	EN 13583	m s ⁻¹	44
Resistance to peel (concrete)	M.O.A.T 66	N/50 mm	162
Resistance to peel (concrete) after thermal ageing at 80 °C, 12 weeks	M.O.A.T 66	N/50 mm	143

Functional properties

Characteristic	Method	Units	Value
Watertightness	EN 1928-B	kPa	500
Water absorption	M.O.A.T 66	%	1,06
Watertightness of joint (hot air) 10 kPa	M.O.A.T 27		Pass
Watertightness (after 6000 hrs UVB test) ¹	EN 1928-B		Pass
Water Vapour Transmission	EN 1931	g	5,26.10 ⁻⁸ kg.m ⁻² .s ⁻¹
Water Vapour Transmission after thermal aging	EN 1296 + EN 1931 g	g	5,20.10 ⁻⁸ kg.m ⁻² .s ⁻¹

¹ Repeating test cycle: 4 hrs. UVB with irradiance 0,66 w/m² 50°C followed by 4 hrs. condensation 40°C.

Joint strength

Characteristic	Method	Units	Value
<i>Peel resistance High-Tack joint</i>			
Length direction	EN 12316-2	N/50 mm	250
Width direction	EN 12316-2	N/50 mm	250
<i>Shear resistance High-Tack joint</i>			
Length direction	EN 12317-2	N/50 mm	500
Width direction	EN 12317-2	N/50 mm	1200
<i>Peel resistance hot air joint</i>			
Length direction	EN 12316-2	N/50 mm	300
Width direction	EN 12316-2	N/50 mm	400
<i>Shear resistance hot air joint</i>			
Length direction	EN 12317-2	N/50 mm	500
Width direction	EN 12317-2	N/50 mm	1200

Fire behaviour

Characteristic	Method	Units	Value
Reaction to fire	EN 13501-1		E
Spread to flame	BS 476-3		C

Temperature

During application	$5^{\circ}\text{C} \leq T \leq +40^{\circ}\text{C}$
Once applied	$-30^{\circ}\text{C} \leq T \leq +90^{\circ}\text{C}$

Leadax Original should be stored in a ventilated area, away from frost and humidity, at minimum temperatures of + 5°C.

Compatibility

Characteristic	Method	Units	Value
Compatibility with bitumen ¹	BRL 1511-1		Pass
Compatibility with PVC	BRL 1511-1		Pass

¹ Bitumen with high SBS content

Chemical resistance

Characteristic	Method	Units	Value
Chemical resistance to lime milk (Ca(OH) ₂)	EN 1847		Pass