

# TECHNICAL DATASHEET



### PRODUCT INFORMATION

Product RaniPlus black, 2500/5000 x 0,500mm

Applications Earth construction membrane, Radon membrane, Groundwater

protection

Type and material Barriermembrane with gas- and fluidfunction, Type A

LDPE, manufacturers materialnumber: 404198

#### **MECHANICAL PROPERTIES**

# **Typical values**

Tensile Strength	MD TD		N/50mm N/50mm	EN 12311-2
Elongation	MD TD	> 600 % > 700 %		EN 12311-2
Resistance to tearing (nail shank)	MD TD	> 200 N > 200 N		EN 12310-1
Resistance to static loading	20 kg	Pass		EN 12730:2001 B
Resistance to impact		300 mm	1	EN 12691 A
Foldability at low temperature		- 30°C		EN 495-5:2013
Water Vapour Transmission, Z	-	> 7,0 x	10 <sup>6</sup> s/m	EN 1931
Water tightness		tight at	2 kPa	EN 1928
Radon transmittance, P		< 2,0 x	10 <sup>-8</sup> m/s	SP method
Radon permeability, k		< 8 x 10	0 <sup>-12</sup> m <sup>2</sup> /s	SP method
Resistance to oxidation		> 70%		ISO 13438 B1
Stress crack resistance		> 200h		ASTM D-5397
Friction characteristics	(morai	ne, sand)	) > 20° > 15°	EN 12957

## Additional information:

The film is protected against UV-radiation up to 150 kLy. Calculated performance time 50 years, based on theoretical life-time performance in creep-fracture resistance tests, if used in tempartures below +50°C and according to instructions.

The product can be welded using a plastic welder, e.g. one that produces a stream of hot air or/and can accept various types of welding tips, or by joining sheets between sealing bars.

Softening temperature for radon membrane 120-130°C, sealing bar recommendation 140 – 250°C, welding temperature should not exceed 350°C. Adjust temperature, sealing speed and sealing time by trial.

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