

TENAX MDP

Type: **1200**
Geocomposite



TENAX **MDP** geocomposites are a combination of a cusped geomembrane and a geotextile.

The combination of geotextile (filtering action) and cusped geomembrane (drainage and protection) offers a complete system of “filter - drainage - protection - water proofing”.

Typical application

Waste disposals; underground structures; retaining walls; ground channels; landfill capping.

| PHYSICAL CHARACTERISTICS | TEST METHOD | UNIT | MDP 1200 | NOTES |
|--------------------------|-------------|------|--------------|-------|
| MEMBRANE POLYMER | | | HDPE | |
| GEOTEXTILE POLYMER | | | PP | |
| U.V. STABILIZER | | | carbon black | |

| DIMENSIONAL CHARACTERISTICS | TEST METHOD | UNIT | MDP 1200 | NOTES |
|-------------------------------|-------------|------------------|----------|-------|
| MASS PER UNIT AREA | ISO 9864 | g/m ² | 1400 | a |
| MEMBRANE THICKNESS | ISO 9863 | mm | 0.5 | a |
| THICKNESS at 20 kPa | ISO 9863 | mm | 8.0 | d |
| RESIDUAL THICKNESS at 200 kPa | ASTM D1621 | % | > 85 | a,b |
| MEMBRANE EDGE | | mm | 40.0 | a |
| ROLL WIDTH | | m | 1.50 | a |
| ROLL LENGTH | | m | 20.0 | a |
| ROLL DIAMETER | | m | 0.48 | a |
| ROLL VOLUME | | m ³ | 0.37 | a |
| GROSS ROLL WEIGHT | | kg | 43.0 | a |

| TECHNICAL CHARACTERISTICS | TEST METHOD | UNIT | MDP 1200 | NOTES |
|---------------------------|-------------|-------------------|----------|-------|
| HYDRAULIC FLOW RATE | | | | |
| i=1 $\sigma_v = 50$ kPa | ISO 12958 | m ² /s | 4.04E-03 | b,c,d |
| i=1 $\sigma_v = 100$ kPa | ISO 12958 | m ² /s | 3.97E-03 | b,c,d |
| i=1 $\sigma_v = 200$ kPa | ISO 12958 | m ² /s | 3.85E-03 | b,c,d |
| i=1 $\sigma_v = 500$ kPa | ISO 12958 | m ² /s | 3.20E-03 | b,c,d |
| TENSILE STRENGTH | ISO 10319 | kN/m | 22 | b,d |
| ELONGATION AT PEAK | ISO 10319 | % | 50 | a,b |

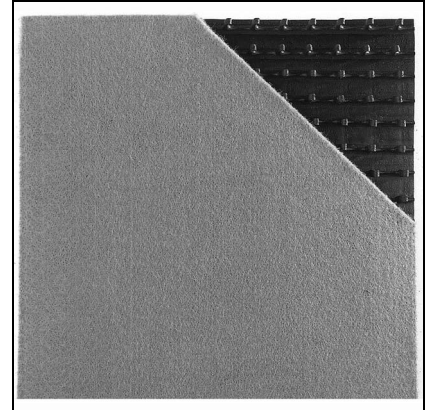
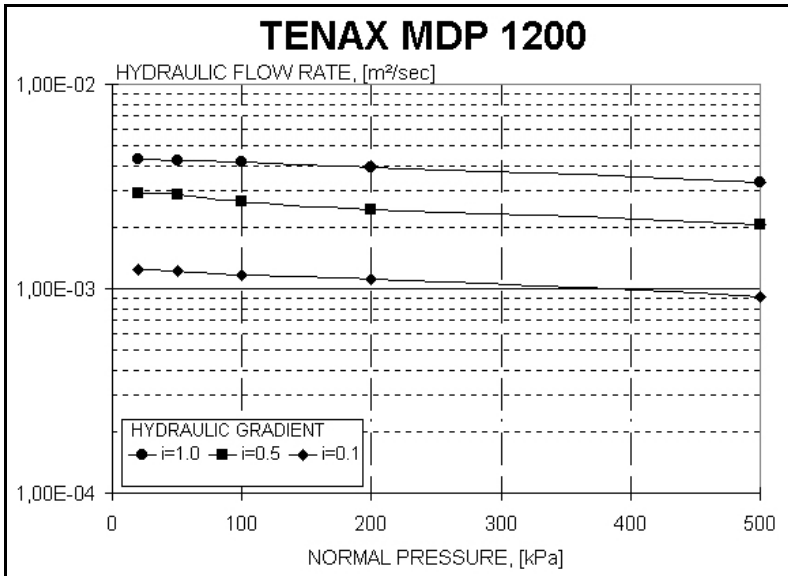
| GEOTEXTILE CHARACTERISTICS | TEST METHOD | UNIT | MDP 1200 | NOTES |
|----------------------------|-------------|------------------|----------|-------|
| MASS PER UNIT WEIGHT | ISO 9864 | g/m ² | 200 | a |
| OPENING SIZE | ISO 12956 | mm | 0.07 | a |

NOTES:

- Typical values
- MD: machine direction (longitudinal to the roll)
- 2mm HDPE liner boundary condition
- Tolerance: -10%



Typical Hydraulic Characteristics



TENAX MDP 1200



0799-CPR-25



The TENAX Laboratory has been operational since 1980 and has been continuously improved with the purpose of assuring unequalled technical development of the products and accurate Quality Control.

The TENAX Laboratory can perform mechanical, hydraulic and durability tests, according to the most important international standards like ISO, CEN, ASTM, DIN, BSI, UNI.

TENAX SpA

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