

TECHNICAL DATA SHEET

HyDra Tex 5000 C

Mechanically bonded composite, consisting of granulated bentonite, embedded and fixed between two layers of geo-textile.

| Properties of geotextile | Test Method | Value |
|---------------------------|-------------|----------------------|
| Carrier Layer - PP Woven | EN ISO 9864 | 130 g/m ² |
| Cover Layer - PP Nonwoven | EN ISO 9864 | 200 g/m ² |

| Properties of bentonite | Test Method | Value |
|--------------------------|-------------|---------------|
| Montmorillonite Content | XRD | ≥ 75% |
| Montmorillonite Content | VDG P 69 | ≥ 300 mg/g |
| Swell Index | ASTM D 5890 | ≥ 24 ml/2g |
| Fluid Loss | ASTM D 5891 | ≤ 18 ml |
| Water Absorption | DIN 18132 | ≥ 450% |
| Cation Exchange Capacity | XRD | ≥ 70 meq/100g |
| Calcium Content | XRD | < 5 weight % |
| Moisture Content | DIN 18121-1 | ≤ 12% |

| Properties of GCL | Test Method | Value |
|--|----------------------|--|
| Mass per unit area of bentonite ⁽¹⁾ | EN 14196 | 5000 g/m ² |
| Mass per unit area of GCL ⁽¹⁾ | EN 14196 | 5330 g/m ² (±10%) |
| Thickness | EN ISO 9863-1/9863-2 | 7,4 mm (±1mm) |
| Index Flux | ASTM D 5887 | ≤ 3,0 x 10 ⁻⁹ (6,0 x 10 ⁻⁹) m ³ /m ² /s |
| Permeability | ASTM D 5887 | ≤ 1,8 x 10 ⁻¹¹ (3,6 x 10 ⁻¹¹) m/s |
| Tensile Strength MD | EN ISO 10319 | ≥ 10,4 kN/m (-10%) |
| Tensile Strength CMD | EN ISO 10319 | ≥ 8,5 kN/m (-10%) |
| Elongation at break MD/CMD | EN ISO 10319 | ≥ 5% |
| CBR Puncture Strength | EN ISO 12236 | ≥ 2,5 kN (-10%) |
| Peel adhesion to concreto | ASTM D 903 Mod | ≥ 2,5 kN/m |
| Peel Strength ⁽²⁾ | ASTM D 6496 | ≥ 66 N/10 cm (-10%) |

| Standard Roll Dimensions | Test Method | Value |
|--------------------------|-------------|--------------------|
| Width x Length | Typical | 5,1 m x 40 m (±1%) |
| Quantity | Typical | 204 m ² |

1. At 12% moisture content
2. Max Peak

These data are average values derived from standard tests and are subject to usual product variation. The right is reserved to make changes without notice at any time.

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