

GEOFLOW[®] GC 422

Product Description

GeoFlow is a high performance geocomposite for drainage and gas management applications.

GeoFlow GC 422 geocomposite consists of a 4.0mm geonet made from HDPE resin with a 203gsm non-woven polypropylene geotextile fabric heat bonded on both sides of the geonet.

Features & Benefits

- GeoFlow has multiple functions such as drainage, venting, leak detection and or protection.
- Suitable for vertical and horizontal applications.
- Excellent durability and long-term performance.
- High compressive strength.
- Flexible, lightweight and easy to install
- Cost effective solution compared to conventional aggregate drainage layers.
- Excellent chemical resistance.
- High transmissivity.
- Increases landfill capacity
- Wide roll widths for efficient installation

Properties	ASTM Test Method	Unit	Test Value	Qualifier
Geonet GN4				
• Thickness	D 5199	mm	4.0	Range
• Carbon Black	D 4218	%	2 to 3	Range
• Tensile Strength	D 5035	kN/m	5.25	Minimum
• Melt Flow	D 1238 ³	g/10 min	1	Maximum
• Density	D 1505	g/cm ³	0.94	Minimum
• Transmissivity ¹	D 4716	m ² /sec	1.5 x 10 ⁻³	MARV ²
Composite				
• Ply Adhesion	D 7005	g/cm	178.3	MARV
• Transmissivity ^{1a}	D 4716	m ² /sec	2.75 x 10 ⁻⁴	MARV
Non-Woven Geotextile				
• Fabric Weight	D 5216	g/m ²	203	MARV
• Grab Strength	D 4632	N	711	MARV
• Grab Elongation	D 4632	%	50	MARV
• Tear Strength	D 4533	N	289	MARV
• Puncture Resistance	D 4833	N	422	MARV
• CBR Puncture	D 6241	N	2000	MARV
• Water Flow Rate	D 4491	l/s/m ⁻¹	74.5	MARV
• Permittivity	D 4491	sec ⁻¹	1.63	MARV
• Permeability	D 4419	cm/sec	0.48	MARV
• AOS	D 4751	mm	0.212	MARV

MD Denotes Machine Direction; TD Denotes Transverse Direction.

1. Transmissivity measured using water at 21 +/- 2 °C with a gradient of 0.1 and a confining pressure of 718.5 kpa between steel plates after 15 minutes. Values may vary with individual labs.
 - a. Transmissivity measured with a gradient of 0.1 and a confining pressure of 480 kPa between steel plates after 15 minutes.
2. MARV is statistically defined as mean minus two standard deviations and it is the value which is exceeded by 97.5% of all the test data.
3. Condition 190/2.16

This data is provided for informational purposes only and is not intended as a warranty or guarantee. Viking Containment assumes no responsibility in connection with the use of this data. These values are subject to change without notice. Please contact us for updated information. Geotextile and Geonet properties are prior to lamination. Geotextile data is provided by supplier.