Formatex 300
F2001 Data Sheet

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Introduction

Formatex 300 is a purpose-built heavy duty non-woven needle punched permeable geotextile, to be used in conjunction with Formavoid 100 units *(F1001)*. The unique manufacturing process delivers a high tensile strength, low elongation geotextile with good permeability, puncture resistance and friction.

Such characteristics are required to create a tensile layer beneath a Formavoid raft to effectively spread load between columns and permit small recoverable deflections without tearing or compromising under heavy load. Formatex 300 also reduces the likelihood of settlement or sinking into the formation.

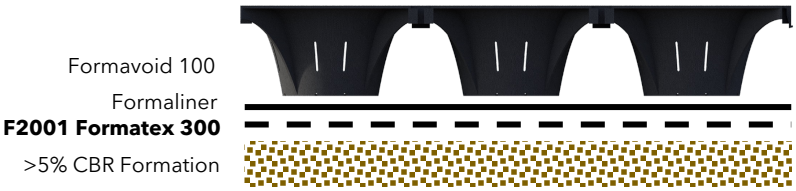
Formatex Information	
Product Code	F2001
Material	Polypropylene, UV Stabilised, Continuous Filaments
Weight	300g/m²
Machine Direction Tensile	21kN/m (EN ISO 10319)
Cross Direction Tensile	21kN/m (EN ISO 10319)
Elongation at Max Load (MD)	80% (EN ISO 10319)
Elongation at Max Load (CD)	70% (EN ISO 10319)
CBR Puncture Resistance	3.5kN (EN ISO 12236)
Dynamic Perforation Resistance	15mm (EN ISO 13433)
Opening Size	90µm
Vertical Permeability	0.08m/s (EN ISO 11058)

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Key Characteristics

- Permits low elongation to reduce tearing.
- High tensile strength, preventing excessive settlement/deflection.
- Effectively spreads heavy load between Formavoid columns.
- High permeability and protection characteristics.
- Excellent chemical and biological resistance.



Notes

- Formatex 300 to be placed on a formation prepared to minimum 5% CBR. Special attention required for <5% CBR.
- Geotextile to be placed continuously on all surfaces prior to installation of Formavoid 100 *(F1001)* units.
- Overlaps of minimum 300mm are required. Overlaps can be sensibly reduced when panels of geotextile are twin wedge welded.

Packaging	
Packaging	Roll
Roll Size	6m (width) x 120m (length)
Roll Weight	Approx. 220kg
Storage	Store in original packaging indoors where possible

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Material Safety Sheet

1. Identification of the substance & the company	
Chemical Name	Polypropylene
Manufacturer	Forma Systems Ltd Moss Cottage Farm Lancaster Road Out Rawcliffe, PR3 0ER. United Kingdom Tel +44 (0)1253 224375
2. Composition	
Composition	Nonwoven continuous filament needle-punched geotextile
3. Hazard identification	
Important hazards	None
4. First-aid measures	
Inhalation	In case of adverse exposure to vapours and/or aerosols formed at elevated temperatures, immediately remove the victim from exposure. Administer artificial respiration if breathing stopped. Call for prompt medical attention.
Skin contact	Any molten material on the skin/burns should be cooled as quickly as possible by means of cold water. Cover the wound with sterile cloth and move person to first aid station or hospital for medical treatment
Eye contact	Any material entering the eye should be flushed out with copious volumes of water. Irritation takes place due to mechanical effect
Ingestion	No danger of toxicity, this material is biologically inactive
5. Fire-fighting measures	
Extinguishing media	Water, carbon dioxide, dry chemical fire extinguishers, synthetic foams, sand
Combustion products	No harmful additives are present with respect to the material. Normal combustion forms carbon dioxide, water vapour and may produce carbon monoxide, original monomer, other hydrocarbons and hydrocarbon oxidation products, depending on temperature and air availability.
Protection for fire-fighters	Wear self-contained breathing apparatus
6. Accidental release measures	
Personal protection	See section 8
Environmental protection	No special requirements

7. Handling and storage	
Information for safe handling	No special measures required
Information for safe storage	Store in cool and shaded area well ventilated. Do not store near open flame, source of heat or ignition.
8. Exposure controls/personal protection	
Large ventilated area for mobility of humans. Under normal conditions there is no health risk to human.	
9. Physical and chemical properties	
Physical state	Solid
Form	Sheet
Colour	Grey
Odour	Odourless
pH Value	N/A
Relative density	0.9g/cm³
Melting point range	160 - 166°C
Ignition temperature	Approx. 420°C
Solubility in water	Insoluble
Vapour pressure	N/A
10. Stability and reactivity	
Thermal decomposition / conditions to be avoided	No decomposition if used to specifications
Dangerous reactions	No dangerous reactions known
Materials and conditions to avoid	Temperature over 100°C
Stability	Stable
11. Toxicology information	
Polyolefins are classified as non toxic products under OSHA Regulations 2000, schedule 1 and 2.	
12. Ecological information	
Polyolefins are environmentally friendly and classified as 0 according to the classification for water endangering products (WGK – German regulations for Water Group Classification) and non toxic under OSHA Regulations 2000, schedule 1 and 2.	

13. Disposal considerations	
This material presents no danger regarding toxicological and/or ecological considerations. Material can be recycled, disposal must be made according to official regulations	
14. Transportation information	
Special precautions	This material is not classified as dangerous good.
15. Regulatory information	
Labelling according to EC guidelines	The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.
16. Other information	
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This data is offered for your consideration, investigation and verification.	

Document Ref	Revision	Revision Date
F2001-DS	01	30.01.2026

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