

# Product Data Sheet

## Sky Garden Protection Fleece

### PL01



#### Technical Data:

Sky Garden protection fleece is manufactured from high tenacity virgin polypropylene. Providing high tensile properties and improved durability. The increased drawing within the fibre manufacturing process re-orientates the molecules within the fibre making it considerably stronger. With the increased molecular orientation and associated higher density it increases mechanical properties and environmental resistance properties that are paramount for good engineering construction methods



This product has been tested and conforms with BS EN ISO Standards

#### Physical Properties:

Composition:	High Tenacity virgin polypropylene staple fibre
Depth:	3.5mm @ 2kPa (BS EN ISO 9863;1)
Colour:	HDPE - Black, Geo-textile Light Grey
Unit supplied:	Rolled Sheet
Unit Width:	1m
Unit Length:	50m
Roll Weight:	50 kg

#### System Considerations:

Use on all Green Roofs System  
Functional in Sedum and Biodiverse Systems  
Rolled on roof with 100mm overlaps

#### Technical Properties:

Tensile Strength (md)	10 kN/m2 (BS EN ISO 10319)
Tensile Elongation (md / cmd)	80 % (BS EN ISO 10319)
Protector Efficiency (10 <sub>s</sub> )	N/A kN/m2 (BS EN ISO 13719)
Static Puncture Strength	2 kN (BS EN ISO 12237)
Push Through Displacement	75 mm (BS EN ISO 12236)
Water Flow	100 l/s/m2 (BS EN ISO 11058)
Dynamic Perforation Test	13 mm (BS EN ISO 13433)
Apparent Pore Size 90% (O90)	150 EN ISO 12956
Coefficient Permeability	7 m/s (BS EN ISO 11058)

#### Chemical Properties:

Resistant to chemicals  
Resistant to root penetration

#### Full Specification Description:

Values are Typical, with the exception of Thickness, which is Nominal. Typical indicates the mean value derived from the samples taken for any one test as defined in the BS EN ISO standard - usually the mean of five samples. Nominal is a guide value.

Product: PL01

Supplier: Sky Garden Ltd



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