



# GARWARE-WALL ROPES LTD.

## GEOSYNTHETICS DIVISION

### Specification of High Strength Polyester Woven Multifilament Geotextile GWF PET Series

ISO 9001:2008 Company

Garware Woven Polyester multifilament Geo textiles, GWF PET series are made of individual multifilament yarns woven together into a stable fabric structure with a superior combination of mechanical and hydraulic properties. These product series has excellent resistance to biological and chemical environments normally found in soils and are stable against short-term exposure to ultraviolet radiation.

The combination of superior mechanical and hydraulic properties makes it suitable for applications involving the functions of soil reinforcement, separation, filtration and soil retention. Some of these High Strength Geo textiles are Engineered to give very stable fabric structure which is a prerequisite for the manufacture of Geotextile Curtains, Tubes, Geotextile containers which will be subjected to pressurized slurry/ sand fill.

Property	Test Method	Unit	Tolerance	50/50	70/70	100/50	100/100	200/50	300/50	400/50	175 /175	200/200
<b>Physical Properties</b>												
Mass per Unit Area	ASTM D 5261	g/m <sup>2</sup>	Min.	220	240	275	375	490	680	840	750	800
<b>Mechanical Properties</b>												
Wide width Tensile Strength @ Ultimate, Warp	ASTM D 4595 /ISO 10319	KN/m	Min.	50	70	100	100	200	300	400	175	200
Wide width Tensile Strength @ Ultimate, Weft		KN/m	Min.	50	70	50	100	50	50	50	175	200
Elongation @ Ultimate Tensile Strength, Warp	ASTM D 4595 /ISO 10319	%	Max.	12	12	12	12	12	12	12	20	20
Elongation @ Ultimate Tensile Strength, Weft		%	Max.	12	12	12	12	12	12	12	20	20
<b>Hydraulic Properties</b>												
Apparent opening size	ASTM D 4751 /ISO 12956	microns	Max.	75	250	150	150	75	75	75	180	180
Water flow rate	ASTM D 4491 /ISO 11058	L/m <sup>2</sup> /s	Min.	9	9	25	25	21	10	6	12	6.5
<b>Packaging</b>												
Roll Width	-	m	+/-1 %	5	5	5	5	5	5	5	5	5
Roll Length	-	m	+/-1 %	100	100	100	100	100	100	100	100	100

Remarks

1. The given values are indicative which are derived from tests carried out in our In-house test facilities & verified by independent Accredited laboratories.
2. Roll length and Roll width may vary as per requirement.
3. Garware-Wall Ropes Ltd. reserves the right to change the specifications before prior notice.

Regd. Off & Factory:

**Garware Wall Rope Ltd.**

Plot No.11, Block D1, MIDC Chinchwad,

Pune – 411019, Maharashtra State, India.

Tel.: 91-020- 30780187, Fax: 91-020-30780350.

E-mail: geo@garwareropes.com,

Website: www.garwareropes.com

