



RBG GROUP

PRODUCT DATA SHEET

POLYPROPYLENE WOVEN MULTIFILAMENT GEOTEXTILES

Garware Woven Polypropylene multifilament Geotextiles, GWF PP 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.

GWF PP series is suitable for applications involving the functions of soil reinforcement, separation, stabilization and filtration. It conforms to the property values listed below, which have been derived from tests carried out in our In-house test facility and verified by independent testing carried out at reputed laboratories.

SPECIFICATIONS OF GARWARE WOVEN MULTIFILAMENT POLYPROPYLENE GEOTEXTILE

Property	Test Method	Unit	GWF 14-90	GWF 26-130	GWF 30-165	GWF 40-220	GWF 52-240	GWF 50-300	GWF 80-350	GWF 100-400	GWF 70-430
Mass per unit area	ASTM D 5261	gsm	90	140	165	220	240	300	330	400	430
Mechanical Properties											
Tensile Strength, warp/weft	IS 1969	kN/m	14/21	28/26	35/30	55/40	55/42	70/60	80/78	100/80	70/70
Elongation at Specified Tensile Strength*, warp/weft	IS 1969	%	25/25	25/25	25/25	30/25	25/25	25/25	25/25	25/25	25/25
Trapezoid Tearing Strength, warp/weft	ASTM D 4533	N	300/300	300/300	500/400	700/500	1100/750	1500/1300	1600/1600	2000/1800	1500/1500
Puncture Strength	ASTM D 4833	N	250	250	450	600	600	800	1000	1200	1200
Hydraulic Properties											
Apparent opening size*	ASTM D 4751	microns	75	75	75	75	150	250	250	75	425
Water flow rate	ASTM D 4491	L/m ² /s	25	10	9	7	32	18	18	9	25
Packaging											
Roll Width	-	m	3.2/5	3.2/5	3.2/5	3.2/5	3.2/5	3.2/5	3.2/5	3.2/5	3.2/5
Roll Length	-	m	100	100	100	100	100	100	100	100	100

- All above specified values are minimum average roll values (MARV)
- Roll length and Roll width may vary as per requirement.
- Garware-Wall Ropes Ltd. reserves the right to change the specifications without prior notice.

Garware-Wall Ropes Ltd.

Geosynthetics Division

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