



GEOQUEST



TerraTextile
Woven Multifilament_{PP}



TerraTextile - W Mu_{pp} are woven geotextiles manufactured from high strength polypropylene multifilament yarns that are woven together to form a dimensionally stable and highly permeable fabric structure. This type of TerraTextile fabrics have superior resistance to soil and biological clogging and acts efficiently as filter. This type of TerraTextile behaves very well as separator and stabiliser, allowing water to freely pass through while preventing soil erosion.

Applications

- **Soil Separation:** TerraTextile - W Mu_{pp} acts efficiently as a separator and helps in preventing mixing of different types of soil and prevents contamination.

- **Filtration:** This type of TerraTextile can be used as a filtration layer to prevent migration of fine particles.
- **Sub-grade Stabilisation:** TerraTextile - W Mu_{pp} improves stability, load distribution and reduces differential settlement for construction over soft soils.
- **Shoreline Revetment Systems:** TerraTextile - W Mu_{pp} can be used along with other products for coastal protective structures.
- **Hard Armour Underlayment:** TerraTextile - W Mu_{pp} as underlayment fabrics can reduce development of excessive hydrostatic pressure beneath the revetment and also prevent migration of fines.

Technical Parameters

Properties	Test Method	Unit	TW-Mu _{pp} 41	TW-Mu _{pp} 61	TW-Mu _{pp} 02	TW-Mu _{pp} 22	TW-Mu _{pp} 422	TW-Mu _{pp} 42	TW-Mu _{pp} 43	TW-Mu _{pp} 34BHP	TW-Mu _{pp} 05B		
Minimum Average Roll Value (MARV)¹													
Mechanical Properties													
Ultimate Tensile Strength	MD ^{iv}	ASTM D 4595	kN/m	30	35	55	55	60	55	80	70	120	
	CD ^v			27	30	40	42	43	40	70	70	110	
Elongation @ designated Tensile Strength	MD ^{iv}		%	30	25	25	25	25	25	25	25	25	25
	CD ^v			28	25	25	25	25	25	25	25	25	25
Trapezoidal Tearing Strength	MD ^{iv}		ASTM D 4533	N	400	500	800	700	900	1100	1800	1500	2300
	CD ^v				350	400	500	500	500	750	1500	1500	1800
CBR Puncture Resistance		ASTM D 6241				400	450	700	700	700	600	900	1200
Hydraulic Properties													
Maximum Apparent Opening Size (AOS) ¹	ASTM D 4751	μ	75	75	75	150	75	150	250	425	425		
Water Flow Rate	ASTM D 4491	l/m ² /s	9	9	9	25	7	32	20	33	20		
UV Resistance at 500 hrs	ASTM D 4355	%	80	80	80	80	80	80	80	80	80		
Standard Packaging													
Roll Width ⁱⁱ	-	m	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0	3.8 / 5.0		
Roll Length ⁱⁱ	-	m	1316/100	1316/100	1316/100	1316/100	1316/100	1316/100	1316/100	65.8/50	65.8/50		
Estimated Roll Area ⁱⁱⁱ		m ²	500/500	500/500	500/500	500/500	500/500	500/500	500/500	250/250	250/250		

¹ All the values mentioned are of minimum average roll values (MARV) except for apparent opening size (AOS) which is maximum average roll value (MaxARV)

ⁱⁱ These values are subject to ±1% variation possible

ⁱⁱⁱ Other roll sizes also available

^{iv} MD - Machine Direction

^v CD - Cross Machine Direction

NOTES

- These properties may change at the time of handling, storage and shipping.
- Other grades and polyester material also available as per requirement.
- The values can be customized.
- The above values are subject to change as per discretion of the company.

info@geoquest-asia.com | www.geoquest-asia.com

Local Contact:

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