



TerraTextile™ – W Mu_{PET} are woven geotextiles with individual threads (multifilaments) of polyester yarns that are woven together on a loom to form a stable fabric structure. This type of woven TerraTextile™ fabric display superior mechanical and hydraulic properties along with excellent resistance to biological and chemical environments normally found in soils.

Applications

- **Basal Reinforcement:** TerraTextile™ – W Mu_{PET} is used in subgrade of roads, airports and railways to improve the stability and load distribution; and to reduce differential settlement when constructed on soft soils.
- **Soil Reinforcement:** TerraTextile™ – W Mu_{PET} can be used as soil reinforcement for temporary soil retaining structures or steep embankment slope construction.
- **Lagoon Closure:** TerraTextile™ – W Mu_{PET} is used as capping for waste lagoon and sludge pond closures.

Technical Parameters

Properties		Test Method	Unit	TW-Mu _{PET} 55	TW-Mu _{PET} 77	TW-Mu _{PET} 105	TW-Mu _{PET} 205	TW-Mu _{PET} 305	TW-Mu _{PET} 405	TW-Mu _{PET} 605	TW-Mu _{PET} 1010BX	TW-Mu _{PET} 150BX	TW-Mu _{PET} 175BX	TW-Mu _{PET} 200BX
				Minimum Average Roll Value (MARV) ⁱ										
Mechanical Properties														
Ultimate Tensile Strength	MD ^{iv}	ASTM D 4595	kN/m	≥ 50	≥ 70	≥ 100	≥ 200	≥ 300	≥ 400	≥ 600	≥ 100	≥ 150	≥ 175	≥ 200
	CD ^v			≥ 50	≥ 70	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 100	≥ 150	≥ 175	≥ 200
Elongation @ Ultimate Tensile Strength	MD ^{iv}		%	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15
	CD ^v			≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15
CBR Puncture Resistance		ASTM D 6241		≥ 3	≥ 4	≥ 4	≥ 8	≥ 9	≥ 10	≥ 12	≥ 5	≥ 11	≥ 12	≥ 22
Hydraulic Properties														
Maximums Apparent Opening Size (AOS) ⁱ		ASTM D 4751	μ	150	150	150	250	250	250	350	350	350	425	425
Water Flow Rate		ASTM D 4491	l/m ² /s	≥ 4	≥ 4	≥ 4	≥ 4	≥ 4	≥ 4	≥ 4	≥ 9	≥ 9	≥ 9	≥ 9
UV Resistance at 500 hrs		ASTM D 4355	%	85	85	85	85	85	85	85	85	85	85	85
pH Range at 27°C		ASTM D2165-94		4-9										
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	3.8/5.0	3.8/5.0
Roll Length ⁱⁱ		-	m	1316/100	1316/100	1316/100	65.8/50	65.8/50	65.8/50	65.8/50	65.8/50	65.8/50	65.8/50	65.8/50
Estimated Roll Area ⁱⁱⁱ			m ²	500/500	500/500	500/500	250/250	250/250	250/250	250/250	250/250	250/250	250/250	250/250

ⁱ 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.