



TerraTextile – W Mu<sub>PET</sub> 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<sub>PET</sub> 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<sub>PET</sub> can be used as soil reinforcement for temporary soil retaining structures or steep embankment slope construction.
- **Lagoon Closure:** TerraTextile – W Mu<sub>PET</sub> is used as capping for waste lagoon and sludge pond closures.

## Technical Parameters

Properties	Test Method	Unit	TW-	TW-	TW-	TW-	TW-	TW-	TW-	TW-	TW-	TW-	TW-	
			Mu <sub>PET</sub> 55	Mu <sub>PET</sub> 77	Mu <sub>PET</sub> 105	Mu <sub>PET</sub> 205	Mu <sub>PET</sub> 305	Mu <sub>PET</sub> 405	Mu <sub>PET</sub> 605	Mu <sub>PET</sub> 1010BX	Mu <sub>PET</sub> 150BX	Mu <sub>PET</sub> 175BX	Mu <sub>PET</sub> 200BX	
<b>Minimum Average Roll Value (MARV)<sup>i</sup></b>														
<b>Mechanical Properties</b>														
Ultimate Tensile Strength	MD <sup>iv</sup>	ASTM D 4595	kN/m	≥ 50	≥ 70	≥ 100	≥ 200	≥ 300	≥ 400	≥ 600	≥ 100	≥ 150	≥ 175	≥ 200
	CD <sup>v</sup>			≥ 50	≥ 70	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 100	≥ 150	≥ 175
Elongation @ Ultimate Tensile Strength	MD <sup>iv</sup>	ASTM D 4595	%	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15
	CD <sup>v</sup>			≤ 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
<b>Hydraulic Properties</b>														
Maximums Apparent Opening Size (AOS) <sup>i</sup>	ASTM D 4751	μ		150	150	150	250	250	250	350	350	350	425	425
Water Flow Rate	ASTM D 4491	l/m <sup>2</sup> /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										
<b>Standard Packaging</b>														
Roll Width <sup>ii</sup>	-	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 <sup>ii</sup>	-	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 <sup>iii</sup>		m <sup>2</sup>		500/500	500/500	500/500	250/250	250/250	250/250	250/250	250/250	250/250	250/250	250/250

<sup>i</sup> All the values mentioned are of minimum average roll values (MARV) except for apparent opening size (AOS) which is maximum average roll value (MaxARV)

<sup>ii</sup> These values are subject to ±1% variation possible

<sup>iii</sup> Other roll sizes also available

<sup>iv</sup> MD - Machine Direction

<sup>v</sup> 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.

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