# TerraTextile™- Woven Multifilament PET





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

#### **Technical Parameters**

Properties		Test Method	Unit	TW- Mu <sub>pet</sub> 55	TW- Mu <sub>pet</sub> 77	TW- Mu <sub>pet</sub> 105	TW- Mu <sub>pet</sub> 205	TW- Mu <sub>pet</sub> 305	TW- Mu <sub>pet</sub> 405	TW- Mu <sub>pet</sub> 605	TW- Mu <sub>pet</sub> 1010BX	TW- Mu <sub>pet</sub> 150BX	TW- Mu <sub>pet</sub> 175BX	TW- Mu <sub>pet</sub> 200BX
				Minimum Average Roll Value (MARV) <sup>i</sup>										
Mechanical Pro	perties													
Ultimate Tensile Strength	MDiv	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	MDiv		%	≤ 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
Hydraulic Prop	erties													
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/m²/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 Packa	ging													
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	131.6/100	131.6/100	131.6/100	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>			m²	500/500	500/500	500/500	250/250	250/250	250/250	250/250	250/250	250/250	250/250	250/250

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

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

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Local Contact:

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These values are subject to ±1% variation possible

iii Other roll sizes also available iv MD - Machine Direction

<sup>&</sup>lt;sup>v</sup> CD - Cross Machine Direction