

## TFI – 5000 Series Woven Polypropylene Geotextiles

TechFab TFI – 5000 Series are polypropylene woven fabrics. These engineered geotextiles are stabilized to resist degradation due to ultraviolet exposure. These are resistant to commonly encountered soil chemicals, mildew and insects, and are non-biodegradable.

Polypropylene is stable within a pH range of 2 to 13, making it one of the most stable polymers available for geotextiles today. We wish to advise that **TFI-5000** series products meet the following minimum average roll values:

S.No	Property	Test Method	TFI 5100 <sup>a</sup>	TFI 5200 <sup>b</sup>	TFI 5300 <sup>c</sup>
1	Grab Tensile Strength	ASTM D 4632	0.890 kN	1.11 kN	1.40 kN
2	Grab Elongation		15 %	15 %	15 %
3	Mullen Burst	ASTM D 3786	2750 kPa	3450 kPa	4130 kPa
4	Puncture Strength	ASTM D 4833	0.422 kN	0.489 kN	0.645 kN
5	Trapezoid Tear Strength	ASTM D 4533	0.330 kN	0.400 kN	0.530 kN
6	Ultraviolet resistance	ASTM D 4355	70% at 500 hr	70% at 500 hr	70% at 500 hr
7	Apparent opening size <sup>1</sup>	ASTM D 4751	0.425 mm	0.425 mm	0.425 mm
8	Permittivity	ASTM D 4491	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>
9	Flow Rate		160 L/min/m <sup>2</sup>	160 L/min/m <sup>2</sup>	160 L/min/m <sup>2</sup>

<sup>1</sup> Maximum average roll values

<sup>a</sup> TFI 5100 meets all requirements for a Type III Geotextile as per IRC:SP:59-2002

<sup>b</sup> TFI 5200 meets all requirements for a Type II Geotextile as per IRC:SP:59-2002

<sup>c</sup> TFI 5300 meets all requirements for a Type I Geotextile as per IRC:SP:59-2002

TechFab India manufactures the woven fabrics indicated above. The values listed are a result of testing conducted in on-site laboratories. A letter certifying the minimum average roll values will be issued from the manufacturing plant by the Quality Control Manager at the time shipment is made.

The above specifications are effective from 01 – 03 – 2005. Techfab India reserve the right to change the specifications without prior notice

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