

AquaX Performance Report

Verified by The Man-Made Textile Research Association, Surat (NABL-Accredited)

AquaX has been independently evaluated for waterproofing integrity, abrasion resistance, and tensile reinforcement. These laboratory results confirm its engineering strength and long-term durability — delivering multi-layer protection in just 1 mm thickness.

Laboratory Test Highlights

■ Hydro Head Test (ISO 811)

Result: 965 mbar (Pressure gradient 60 mbar/min, Test area 10 cm²)
No water penetration observed — confirms AquaX creates a dense, non-porous waterproof barrier suitable for basements, terraces, and rooftops.

■ Taber Abrasion Test (ASTM D4060-19)

Result: H-18 wheel (500 g), 5000 cycles | Failure after 1097 cycles
Excellent abrasion resistance — withstands mechanical wear far beyond conventional coatings, ensuring long-term surface durability.

■ Tensile Strength & Elongation (ASTM D5035)

Result: MD 2185 N | CD 2241 N | Elongation 3.0 % (MD), 3.6 % (CD)
High tensile reinforcement — fabric core bridges cracks and resists structural movement, maintaining surface integrity under stress.

Comparison Snapshot

Property	AquaX (1mm)	Conventional Coating	Membrane Sheet
Waterproofing	■ No Leakage (965 mbar) Dense, non-porous seal	■ ■ Minor seepage Limited pressure resistance	■ Moderate resistance Multiple seams risk
Abrasion Resistance	■ 1097+ cycles Excellent surface durability	■ ■ 400–500 cycles Wears faster under use	■ ■ 600–700 cycles Moderate endurance
Tensile Strength	■ 2000+ N Reinforced structural strength	■ ■ 50–100 N Weak bonding	■ ■ 100–150 N Limited reinforcement
Elongation	■ High flexibility Bridges surface cracks	■ Low Prone to cracking	■ ■ Moderate Limited movement tolerance

Performance Summary

Laboratory verification establishes AquaX as a next-generation waterproofing fabric that performs beyond conventional systems. With superior water resistance, abrasion endurance, and tensile strength, AquaX ensures long-term structural protection even under extreme conditions.

Engineered for Endurance. Tested for Trust.

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AquaX