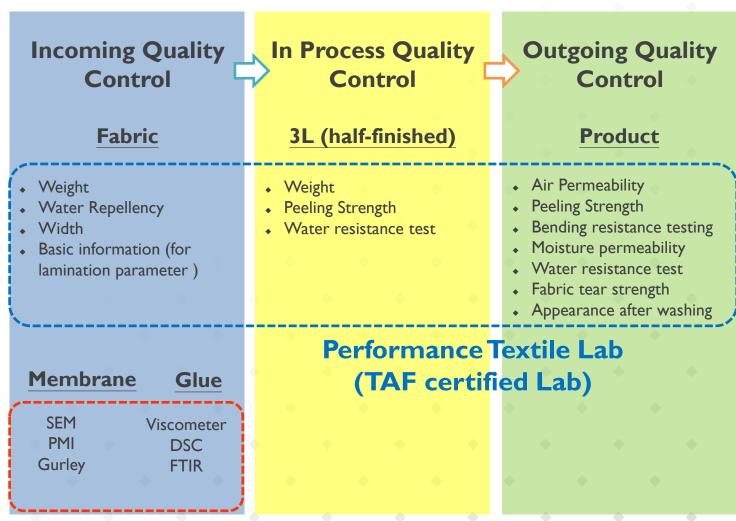




Xpore's waterproof-breathable textile technology is non-toxic and friendly to the environment. Tested against the toughest conditions at Xpore Lab, we ensure that users can enjoy the best waterproof, breathability, and dryness qualities and remain comfortable, regardless if it's light rain in the city or a storm on a mountain top.



### BenQ Materials RD Center

- SEM: micro-structure of membrane
- PMI: pore sizes and distribution for membrane
- Gurley: air permeability test for membrane
- Viscometer: to measure viscosity of a glue
- DSC: thermo properties of glue
- FTIR: chemical identification



Xpore conducts strict testing using various fabric testing equipment to ensure that Xpore textiles have the best performance.



- Water Repellency
- Water resistance tester



Smoothness appearance



- Moisture permeability testing machine
- UV back sheet tester



- Washing machine
- Dryer



- Softness tester
- Peeling Strength tester
- Air permeability tester
- Martindale wear meter
- Bending resistance testing machine
- Fabric tear strength testing machine

Туре	Function	Equipment	Method
Functional Clothing	Basic instrument	Round cutter ` Cutter ` Fabric thickness	Glue/ fabric basis weight, etc. ( JIS L1096)
		Electronic balance	Measuring amount of glue, fabric weight
		Guard shell film	Measuring fabric bonding strength sample preparatio
	waterproof and moisture permeability	Universal tension machine	Measuring the bonding strength of the fabric
		Moisture permeability testing machine	JISL 1099-1A Positive cup ` B1 method
		Water resistance test machine	AATCC 127
		Air permeability tester	ASTM D 737
	Washing resistance	washing machine	EN ISO 6330
		Dryer	EN ISO 6330
		Autoclave	Measuring the resistance of medical fabrics to disinfection test
	fabric strength	Martindale wear meter	ASTM D4970
		Fabric wetness tester	ISO 4920
		Bending resistance testing machine	ISO7854
		Fabric tear strength testing machine	ISO4674
		Softness tester	ASTM D2923
	Seam Tape	Hot air blower	taping
	fabric strength	Resistance to tortuosity test(bally)	SATRA TM55
		Flexibility test(vamp)	SATRA TM25
		Bursting strength test	ASTM D2207
Functional		Fabric water absorption test	ASTM D1815
Shoe	Shoe cover / whole shoe	Dynamic waterproof zigzag test	ISO 20344
	waterproof	Shoe cover leak test	Whole shoe leak test
<b>*</b>	High/low temperature environment simulation	Humidity Chamber	Reliability test
Human body feeling /	Human body feeling	Storm test laboratory	Reference TTRI & Science technology museum
high-Level moisture permeability	high-Level moisture permeability	Wet impedance (Ret) testing machine	ISO11092





Waterproof **Performance** 

Water resistance **ISO 811** 

 Using ISO 811 standard with water resistance larger than 20K to ensure a high degree of Waterproof



**Durability Performance** 

Washing process ISO 6330

 Washing continuously for 24hrs with washing procedures set by Xpore to ensure high durability



**Durability Performance** 

Peel Strength ISO 2411

• Ensure that the membrane and fabric are firmly bonded, so the fabric is more durable and washable.



#### Comfort. **Performance**

Water Vapor **Permeability** JIS L1099 A1

Windproof

• Using JIS L1099 A1 standard with water vapor permeability larger than 8K to ensure a high degree of water vapor permeability



 Using ASTM D737 standard with windproof larger than 0.05cfm to keep users warm and comfortable



Waterproofness of garments

> **Modified Test** EN14360

- Test the waterproofness of garments and tape under the simulation of strong wind and heavy rain
  - Amount of water (2000  $\pm$  50) I/(m2h)
  - Beaufort number 4(20–28 km/h)~6 (39–49 km/h)
  - Test duration 30 min



#### ◆ Certification Obtained







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#### ◆ Certification Item for PROSPECT



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# xpore

## Website



https://xpore-global.com

## LinkedIn



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