

Moisture-permeable Polyurethane Resin

▶ Application

Applicable to sports apparel, adhesive plaster label seal, synthetic leather (application examples: furniture, clothing, shoes, etc.)

▶ Characteristics

Coating films formed by our X and Y series allow moisture vapor to permeate and allow no water drop to pass through, and are mainly applicable to moisture-permeable waterproof fabrics.

X series (microporous type)

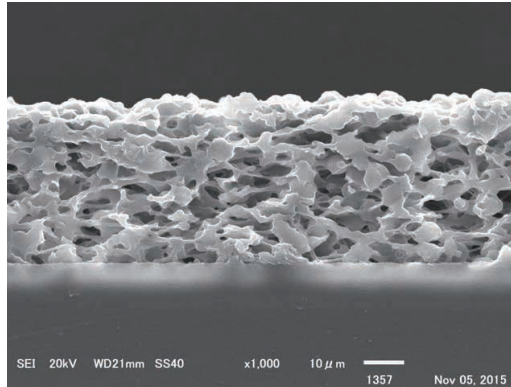
- Solution-polymerized polyurethane resin
- Capable of forming continuous porous layer with a thickness of several dozen μm after coating and then drying

Y series (non-porous type)

- Solution-polymerized non-porous polyurethane resin with a hydroxy group in its structure, and having permeability
- Capable of forming moisture-permeable waterproof film after coating on release paper and evaporating the solvent

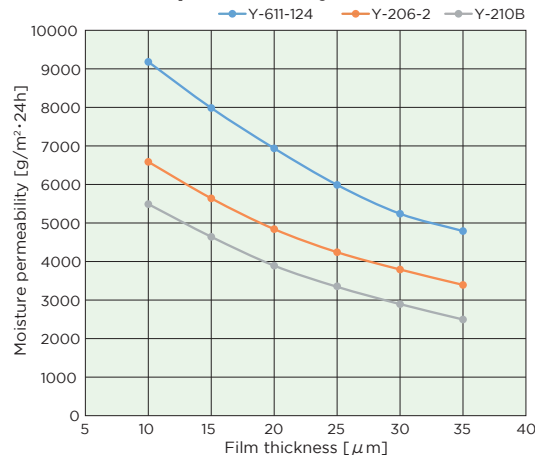
▶ Evaluation Results

Electron micrographs



Cross-section of X type porous layer

Relationship between film thickness and moisture permeability



* Above is our internal experimental data.
It is not guaranteed.

▶ Representative Products

Application	Type	Polyols	Product name
Moisture-permeable materials capable of forming porous layer (one-component type for film materials)	Semi-non-yellowing	Polyether	ATX-10
			X-3040
			Y-206-2
Skin layers consisting of moisture-permeable non-porous films (one-component type for film materials)	Semi-non-yellowing	Polyether	Y-210B
			Y-237NS
			Y-611-124
			Y-119E
Adhesives for moisture-permeable non-porous films (two-component curing type for film materials)	Yellowing	Polyether/ Ester	Y-173
		Polyether	Y-128NS

