



Recycled PET Textiles for Waterproof Breathable Membranes

□ Introduction

The core of this technology is the development of polyurethane resin containing recycled PET. Through technological development, we can overcome the influence of PET on its moisture permeability. It is formed into a waterproof and moisture-permeable film through the industry's coating processing equipment.

□ Technology application process :

PET textiles/
composite textiles

Polyurethane resin

Non-porous waterproof
and breathable membrane



Textiles/
Clothing



□ Technical specifications(non-porous film) :

	ITRI technology	Commodity-A	Commodity-B
Membrane material type	PU	TPEE	TPU
Recycling material	PET textiles	PET bottle flakes	PE waste
Breathability (g/m ² *24hrs)-B1	≥50K	≥40K	≥40K
Waterproofness (mmH ₂ O)	≥15K	≥10K	≥10K