

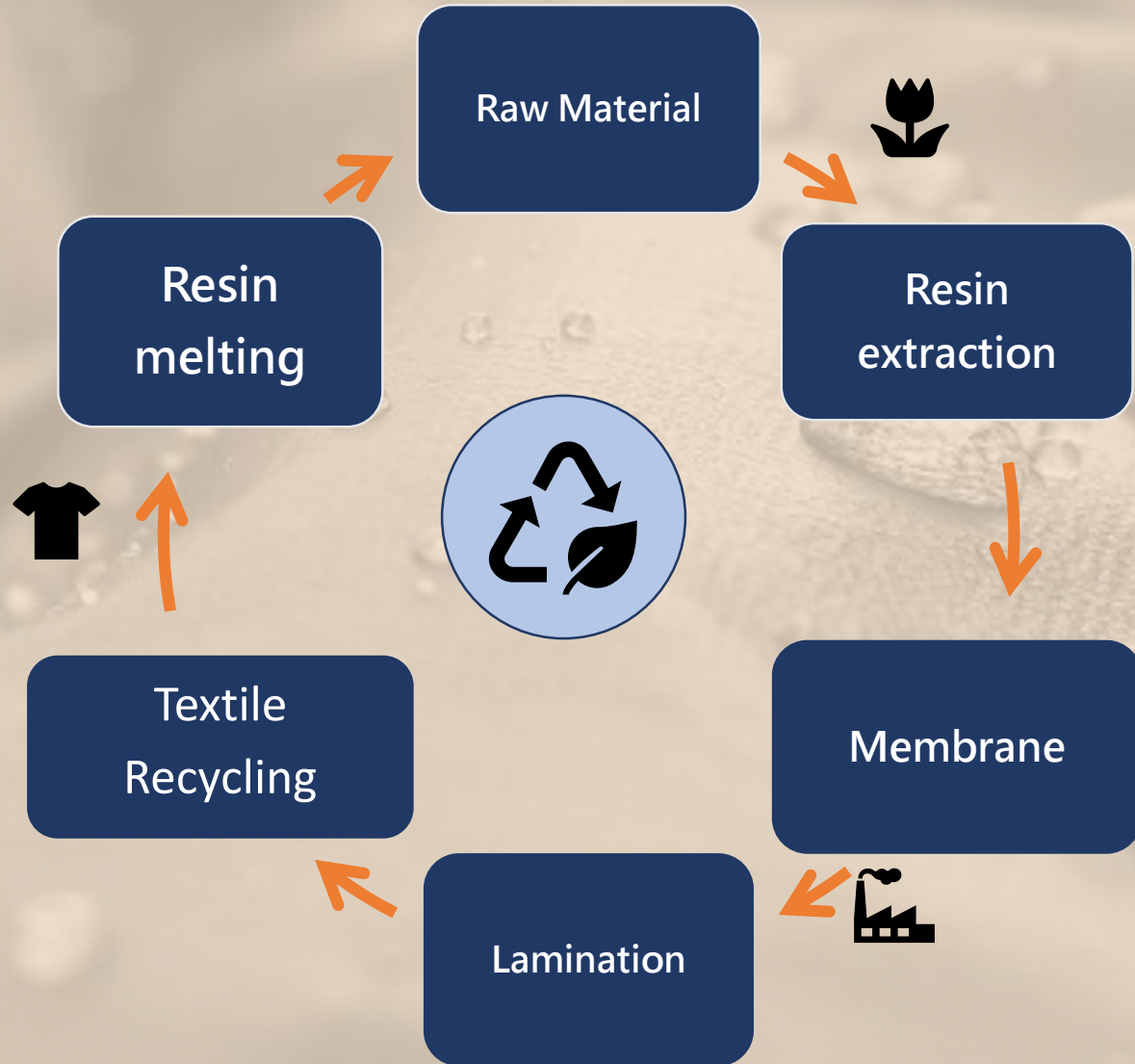


POREFORTE[®]
Hydrophilic Permeable Membrane

MRE-50R

TPEE Membrane

WHY MRE-50R?



1. Recyclable and reusable polyester: **50% rPET**.

2. **Solvent-free process** with low carbon emissions.

3. A highly **functional and environmentally** friendly product of top quality.

4. Total **recyclable** waste reduction, minimizing natural resource consumption.



POREFORTE®

Hydrophilic Permeable Membrane

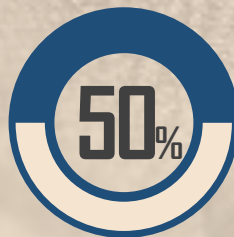
COMPETITIVE
EDGES

01 MONO CIRCULAR
One Polymer Solution



Recycled PET

+



Virgin PET

02 HYDROSTATIC RESISTANCE
JIS L1092:15,000mmH₂O



03 VAPOR PERMEABILITY
JIS L 1099 B1:25,000g/m².24hrs

04 OEKO-TEX Certified
Class I: baby articles

Membrane Comparison

PU

MRE-50R

Permeability
JIS-1099 B1

10,000+ g/m².24hrs

10,000-25,000 g/m².24hrs

Material

Polyurethane

50%rTPEE

Eco-Friendly

Solvent base

Solvent free

Recyclable

No

Yes

Anti-yellowing

No

Yes

POREPERTE
Hydrophilic Permeable Membrane



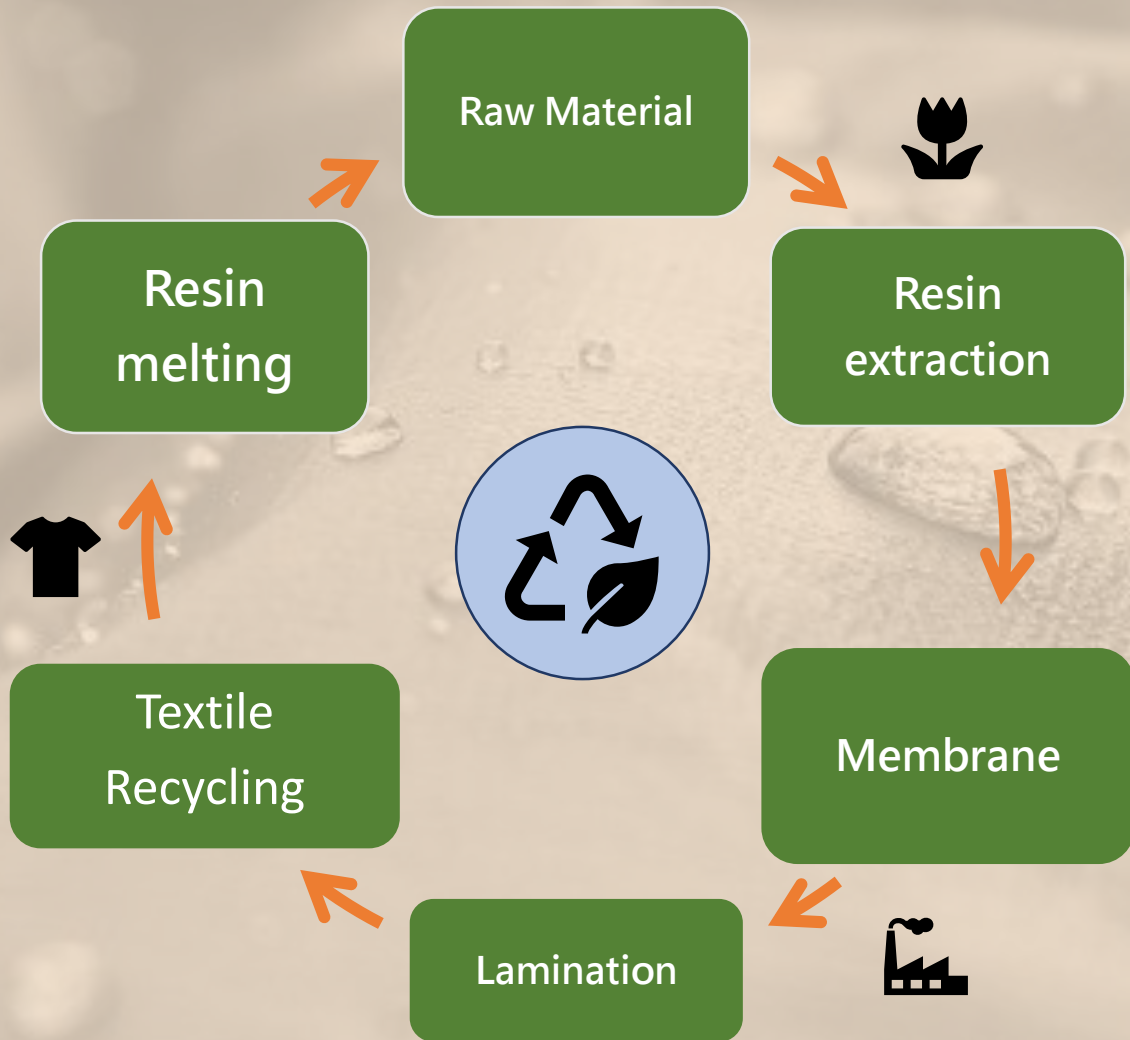
San Fang Chemical Industry Co., Ltd.

POREFORTE[®]
Hydrophilic Permeable Membrane



Neo-PA45

Polyamide Membrane

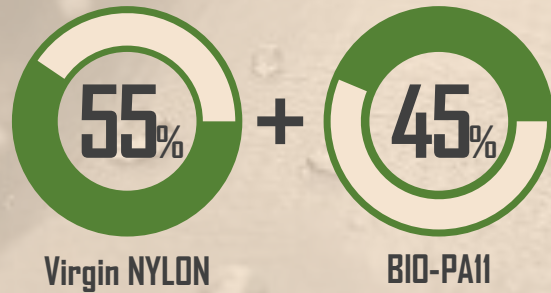


WHY NEO-PA45?

1. Bio-based material (nylon-PA11)
2. Solvent-free, process of low carbon emission
3. Extracted from castor oil, quick foster, *non-controversial* on famine topic
4. Excellent performance on moisture vapor permeability, highly functional and environmentally friendly material of top quality
5. Replacement for petroleum – purpose of plastic reduction, carbon neutrality

01 45% Bio-base Material

One Polymer Solution For Nylon Fabric



With up to 45% Bio Nylon 11, it offers eco-friendly options with a strong balance between sustainability and functionality.

100% Recyclable

Poreforte®Neo-PA45 is a fully recyclable nylon elastic film, perfect for bulk outdoor clothing fabrics, offering a single-material solution.

02 EXCEPTIONAL PERFORMANCE

VAPOR PERMEABILITY

JIS L 1099 B1:100,000g/m².24hrs

HYDROSTATIC RESISTANCE

JIS L1092:10,000mmH₂O

03 SILKY TOUCH HAND FEEL & ANTI YELLOWING

Soft Touch: Softer than PU or TPEE films

No Plastic Feel: Eliminating plastic feel and noise.

Anti-Yellowing: Maintains color clarity over time.

Poreforte®
Hydrophillic Permeable Membrane



Membrane Comparison

Gore Tex

Neo-PA45

Permeability
JIS-1099 B1

100,000+ g/m².24hrs

100,000-150,000 g/m².24hrs

Material

PTFE (Teflon)

Bio Base (Castor Oil)

Eco-Friendly

Solvent base

Solvent free

Recyclable

No

Yes

End User Experience

Requires frequent cleaning / micro-clogging in pores.

Easy to maintain / Resistant to dirt

Hydrophilic Permeable Membrane
POREPERTE[®]



San Fang Chemical Industry Co., Ltd.



Property	Unit	Standard	MRE-50R TPEE	Neo-PA45 Nylon
Hydrostatic pressure	mmH2O	JIS-L1092	15K-20K mmH2O	10K-15K mmH2O
		AATCC-127	15K-20K mmH2O	10K-15K mmH2O
		ISO-811	15K-20K mmH2O	10K-15K mmH2O
	kPa	GB/T 4744-2013	150K-200 kPa	100K-150 kPa
Moisture Vapor Permeability	g/m ² .24hrs	JIS-L1099	Inverted cup test : 10K-25K g/m ² .24hrs	Inverted cup test : 100K-150K g/m ² .24hrs
		ASTM E-96	Inverted cup test: >3,000 g/m ² .24hrs	Inverted cup test: >3,000 g/m ² .24hrs
		ISO-11092 (RET)	Water vapor resistance RET <5	Water vapor resistance RET <3
		GB/T 12704.2-2009	Inverted cup test : >9,000 g/m ² .24hrs	Inverted cup test : >10,000 g/m ² .24hrs