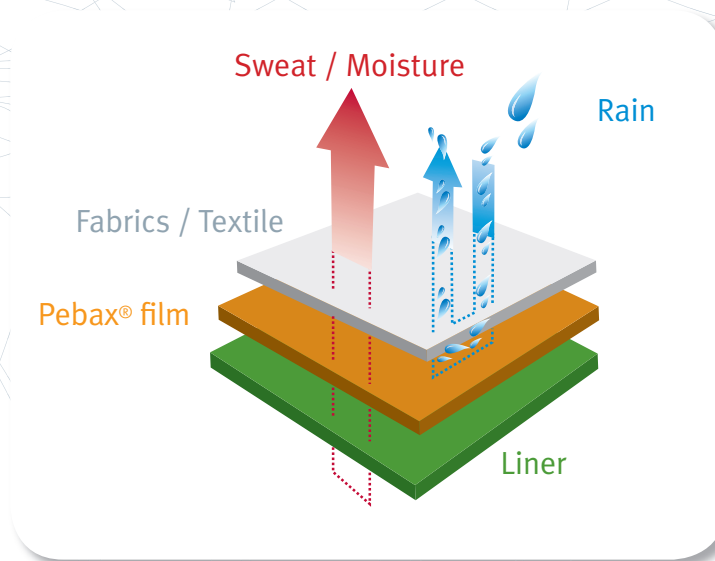




## BREATHABLE FILM

### GENERATE BREATHABLE WATERPROOF MEMBRANES WITH BREATHABLE PEBAX®

The hydrophilic grades of Pebax® when extruded into either a thin film or laminated onto a substrate offer excellent permeability to moisture vapor while remaining waterproof and offering an excellent barrier layer to bacteria. Pebax® can be laminated onto synthetic non wovens, wovens or any textiles with the help of some functional polyolefins, and does not require any adhesives or bonding agents to adhere with these substrates.



### ADVANTAGES OF USING PEBAX®

Pebax®, through its unique copolymer structure, offers a perfect combination of mechanical strength, breathability, and ease of processing. Unlike microporous products, the monolithic structure of Pebax® films is a barrier to water and bacteria while exhibiting a high level of MVTR (Moisture Vapor Transmission Rate). Each of these advantages makes breathable Pebax® a material of choice for many applications such as construction wrapping, food packaging, medical, and sport clothing.

KEY PROPERTIES	PEBAX® SOLUTIONS
High MVTR	MV 3000, MV 6100
Water resistance	MV 3000, MV 6100
Monolithic barrier to bacterias and molds	MV 3000, MV 6100
Tear resistance	MV 3000, MV 6100
Dry break force	MV 3000, MV 6100
UV resistance	MV 3000 SN 01, MV 6100 SN 01

### PEBAX® EASE OF PROCESSING

The breathable grades of Pebax® can be extruded into a very thin monolithic film down to 15 microns or laminated onto a wide variety of substrates (wovens, non wovens, textiles...) offering excellent adhesion for structural integrity. Pebax® can also be used with compatibilizing resins (functional polyolefins) to adjust its breathability to different levels suitable for a wide range of applications and conditions in different parts of the world. Pebax® brings design flexibility to laminators and builders to develop a whole range of products.

## BREATHABLE PEBAX®: THE MATERIAL OF CHOICE FOR MONOLITHIC HOUSEWRAP

The high MVTR of the product allows the monolithic housewrap to breathe easily so the moisture vapor behind it does not turn into condensation that potentially leads to molds and mildews in the walls.

The water resistance of the product allows the housewrap to protect the housing structures from water-related structural failures and formation of agents such as molds and mildews that are major concerns for the health and safety of the residents.

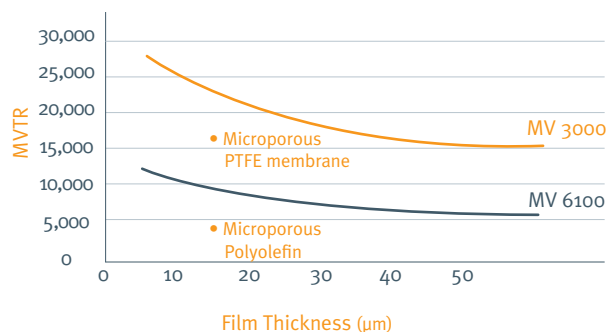
The tear resistance of the product allows the product to be installed around the housewrap without any tearing damages at the jobsite, making it easier for the construction workers to wrap the house in a shorter duration.

The UV resistance of the product allows the builders to wrap the house and then tend to other construction activities not worrying about the damage to the housewrap from the UV rays.

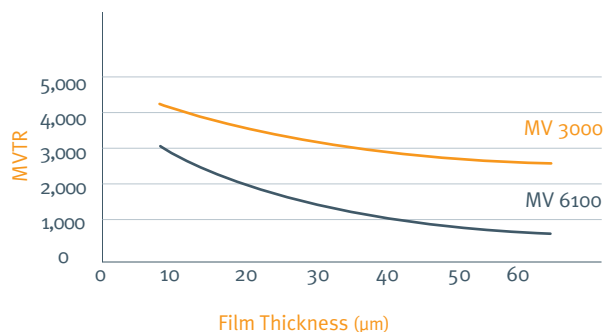
## BREATHABILITY OF PEBAX®

Breathability can be described as the MVTR and it represents the amount of water vapor that goes through a film or structure over a period of 24 hours. It is measured per ASTM E96 A/B/BW methods in g/m<sup>2</sup>/day at 50% or 90% RH and at 23 °C or 38 °C. Depicted in the graphs below, Pebax® grades offer high levels of MVTR under different conditions, surpassing alternative microporous or microperforated technologies.

ASTM Method E96 BW @ 50% RH – 38°C



ASTM Method E96 E @ 90% RH – 38°C



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See MSDS for Health & Safety Considerations

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420, rue d'Estienne d'Orves  
92700 Colombes - France  
Tel.: + 33 (0)1 49 00 80 80  
Fax: + 33(0)1 49 00 83 96  
www.arkema.com

www.pebax.com  
info.pebax@arkema.com