



IR A7 US

BREATHABLE MEMBRANE DERIVED
FROM PEBAX® MATERIAL



As sustainability efforts grow across industrial markets, Bostik, the adhesive solutions division of Arkema, has concentrated efforts around reducing our customers' environmental impact during manufacturing processes, end-use applications and product disposal methods. This has included formulating different membranes, such as our most recent one, IR A7 US, which is derived from Arkema's Pebax® material and provides a partially bio-based membrane solution to the market.

As a solid, monolithic, film membrane, it allows for waterproofness while still enabling the diffusion of water vapor to maintain breathability. Additionally, with good low temperature resistance ($T_g < -40^{\circ}\text{C}$), this membrane can be used in applications where the end product is exposed to low temperatures and won't become brittle or stiff.

IR A7 US is:



Made from materials based off castor oil, allowing it to be partially bio-based



Able to be mechanically recycled with nylon thermoplastics



Produced without PFAS surfactant



It provides the following performance benefits:



SOFTNESS



ELASTICITY

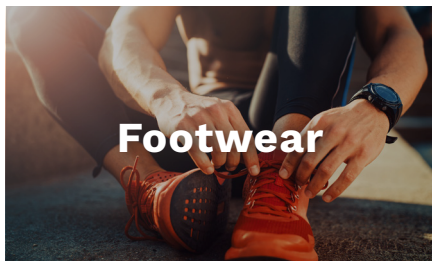


BREATHABILITY

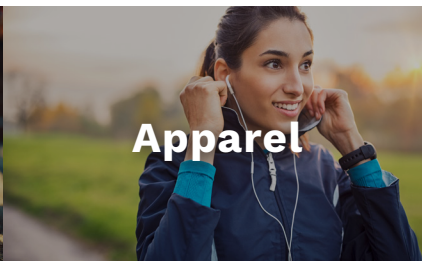


WATERPROOFNESS

Key Applications:



Footwear



Apparel



Technical Textiles

TYPICAL APPLICATION PROPERTIES*

Description	Results
Appearance	Semi-matte, clear film
Melt Range	140 – 150°C
Breaking Strength	> 12 MPa (1740 PSI)
Elongation at Break	> 600%
MVTR (38°C-50%RH)	3000 ± 200 g/m ² /24h (ASTM E96)
Density	1.01 ± 0.02 kg/dm ³

* Properties based on 15µm thickness

Ready to get started with IR A7 US?
[Contact a Bostik expert today!](#)

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