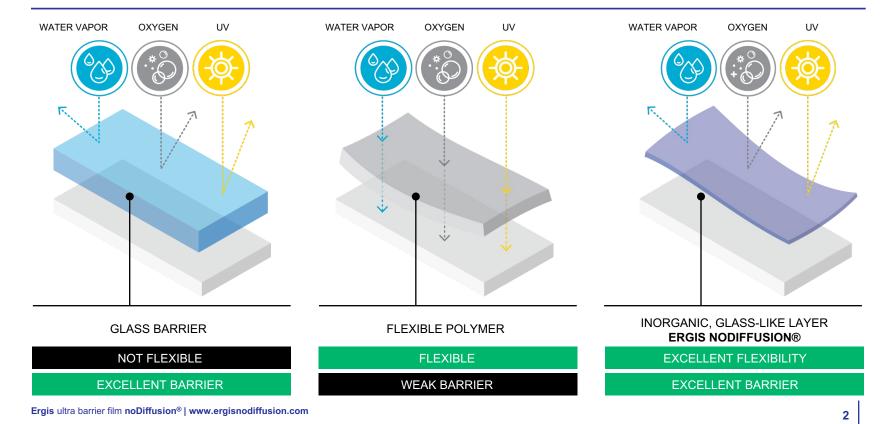
# Ergis ultra barrier film noDiffusion innovation in encapsulation

A CURRENT ELECTRONICS MARKET TREND is the fabrication of various flexible electronic devices (like flexible displays and solar cells), that require a flexible substrate material.





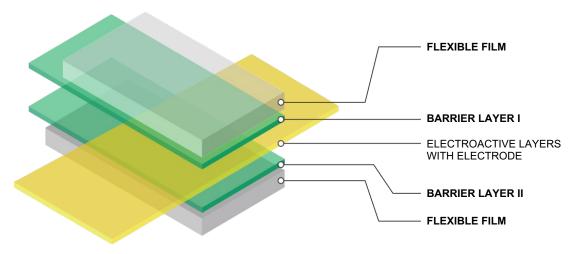
ENCAPSULATION are among the most significant deterrents due to their relatively high price, and many kinds of devices don't reach the market because they have to compete with traditional devices like glass-based OLEDs, Si-based rigid photovoltaics and many other types of devices, and the added production costs are too

high even when the higher functionality is considered. Thus, lowering the manufacturing costs of flexible devices can lead to more feasible commercialization.

### **ERGIS noDIFFUSION® FILMS ARE**

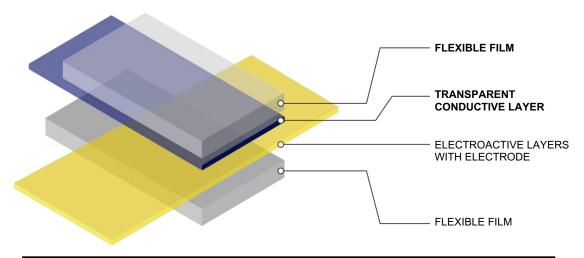


# ERGIS noDIFFUSION® BARRIER FILMS



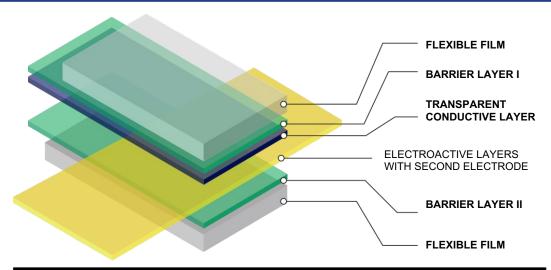
Substrate	PET, PMMA
Water Vapor Transmission Rate (WVTR)	10 <sup>-6</sup> g/m <sup>2</sup> 24h
Oxygen Transmission Rate (OTR)	10 <sup>-4</sup> cm <sup>3</sup> /m <sup>2</sup> 24h
Film Thickness	12-150 µm
Transmittance	> 90% in the visible range
Other properties	Weather resistant, UV stable

# ERGIS noDIFFUSION® BARRIER FILMS



Substrate	PET, PMMA
Surface conductivity	15 ohm/square
Film Thickness	12-150 μm
Transmittance	> 80% in the visible range
Other properties	Weather resistant, UV stable

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Ergis noDiffusion® film technology is being developed by the ERGIS GROUP in co-operation with its partners.



The ERGIS Group, which has been developed consistently since 1998, is a leader in plastics processing in Central and Eastern Europe. The Group consists of modern and innovative companies, which makes it an example of a dynamic enterprise with a stable market position. Our organisational culture is based on: expansion, sustainable development and innovativeness.



### CIRCULAR PACKAGING DESIGN

was established in January 2018 as part of Ergis Group when the EU announced its new Strategy for Plastic. Its main objective is design and production implementation of packaging complying with Circular Economy requirements.

# Ergis ultra barrier film noDiffusion®

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innovation in encapsulation