

# Pharmaceutical Blister Films

## Different Materials' Moisture and Oxygen Barrier Properties Ranking

<b>Material</b>	<b>Oxygen permeability</b> (cc.mil/100in <sup>2</sup> day atm (23°C/0%RH)
<b>EVOH (0% RH)</b>	<b>0.01</b>
<b>LCP</b>	<b>0.06</b>
<b>PVDC</b>	<b>0.1</b>
<b>BAREX</b>	<b>0.8 (1)</b>
<b>EVOH (90% RH)</b>	<b>~ 0.95</b>
<b>PCTFE</b>	<b>7 (2)</b>
<b>PVC</b>	<b>~ 5 - 10</b>
<b>COC</b>	<b>~ 250</b>
<b>PP</b>	<b>~ 150 - 250</b>

<b>Material</b>	<b>Moisture transmission</b> (g.mil/100in <sup>2</sup> day @ 38°C/90%RH)
<b>PCTFE</b>	<b>0.016</b>
<b>LCP</b>	<b>0.02</b>
<b>PVDC</b>	<b>0.1</b>
<b>COP</b>	<b>~ 0.12</b>
<b>COC</b>	<b>~ 0.2</b>
<b>PP</b>	<b>~0.74</b>
<b>EVOH</b>	<b>~ 1</b>
<b>PVC</b>	<b>~ 2</b>
<b>BAREX</b>	<b>5</b>

(1) 100%RH

(2) 25°C

LCP: Liquid Crystal Polymers

COC: Cyclic Olefin Copolymer

COP: Cyclic Olefin Polymer

Barex: Acrylonitrile-methyl Acrylate copolymer