



Diofan[®]



SOLVAY

asking more from chemistry[®]

Diofan[®] PVDC
for Thermoformed and Blister Packaging

**SPECIALTY
POLYMERS**

Diofan® PVDC

40 Years of Leadership Providing Barrier to Blister Packaging

The pharmaceutical world is being changed by intense competition, increasing cost concerns over treatment decisions, and the growth of generic drugs. The focus of pharmaceutical manufacturers is turning more and more to packaging solutions that can serve the global market by combining three key aspects:

- Performance
- Safety
- Competitiveness

Films made with Diofan® PVDC High Barrier Polymers provide an optimum balance of these key properties.

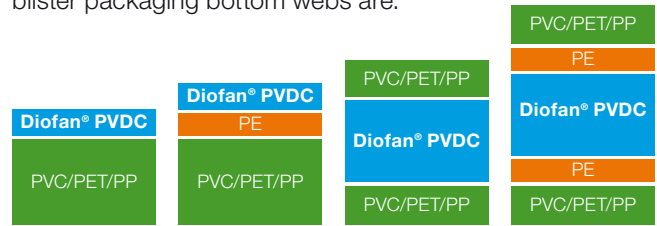
40 years of leadership in barrier materials has demonstrated the performance of Diofan® PVDC coatings for long-term drug safety, even in the most demanding climate conditions. Several properties contribute to its performance, including machinability, thermoformability, consistent quality, ease of tablet- and blister-to-carton-feeding, and seal integrity at high line speeds.

Key Properties of Diofan® PVDC Coatings:

- Excellent moisture barrier
- Intrinsic barrier to oxygen permeation
- Protection from aroma and flavor loss or pickup
- Prevention of oil and grease permeation
- Good seal integrity (heat, high-frequency or ultrasonic seals)
- Excellent thermoformability allowing high pill density and smaller pack sizes
- Excellent transparency
- Chemical resistance
- Good scratch and abrasion resistance

Diofan® PVDC coatings comply with requirements for direct food and pharmaceutical contact from regulatory agencies around the world.

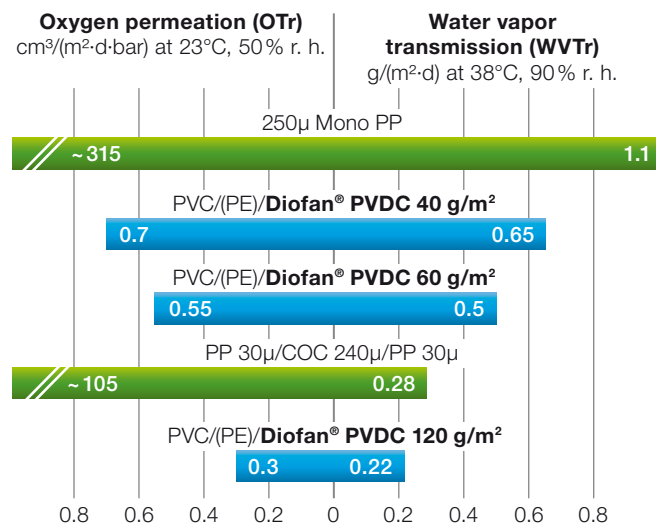
Typical film structures used for thermoformable barrier blister packaging bottom webs are:



Diofan® PVDC coatings provide excellent barrier to both oxygen and water vapor, while most other barrier polymers offer protection from just one or the other.

Polymer	Intrinsic Water Vapor Barrier	Intrinsic Oxygen Barrier
Diofan® PVDC	★★★★★	★★★★★
PVC	★★★	★★★
PET	★★★	★★★
PP	★★★★	★
HDPE	★★★★	★
PA	★★	★★★
COC	★★★★	★
EVOH	★★	★★★★★ (dry) ★★★ (humid)
PCTFE	★★★★★	★★★

★ Very low barrier ★★★★★ Ultra high barrier
 Intrinsic barrier: Normalized permeation through 1 μm of polymer film
 (low permeation = good barrier)



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