



Owensboro Specialty Polymers, Inc.
Chemistry that Connects, People that Care

Why Choose Daran[®] PVdC Latex for Your Flexible Package?

DARAN[®] PVdC LATEX POLYMERS

Owensboro Specialty Polymers, Inc.
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Why Choose Daran[®] PVdC Latex?

Flexible Packaging

The flexible packaging industry has many options to choose from when designing the best structure for the application at hand. One of the choices is PVdC latex. But why and when would you choose Daran[®] PVdC latex?

Do you need a structure with excellent gas barrier properties?

Is moisture barrier important for your structure?

Does your structure need good scuff resistance?

Do you want excellent clarity and transparency?

Is good printability important to you?

Does your structure require heat sealability?

Do you need protection from odors and flavors?

Does your structure require solvent resistance?

Do you need to have excellent metal detection with your finished package?

Do you want your structure to be repulpable?

Is cost important to you?

If you answered yes to one or more of these questions, you should take a good look at Daran PVdC latex for your structure. One of our Daran PVdC latex products could easily be the layer you are looking for in your next flexible packaging structure.

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Barrier Properties Compared

The table below is a comparison of the barrier properties of various films including a couple of commercial grades of Daran PVdC latex. As you can see in the chart, PVdC latex provides excellent barrier compared against other films of similar thickness.

Thermoplastics	Water Vapor Transmission g · ml 100 in ² · day 100° F and 90% RH ASTM D-96	Oxygen Transmission cc · ml 100 in ² · day · atm 23° C and 75% RH ASTM D-1434	Permeability to Carbon Dioxide¹ cc · ml 100 in ² · day · atm 23° C
Daran [®] SL112 PVdC latex	0.049	0.03	0.18
Daran [®] SL159 PVdC latex	0.055	0.1	0.15-0.21
Saran [®] Wrap Films	0.20	0.8	4.5
Ethylene Vinyl Alcohol (EVOH)	3.8	0.01 (0%RH) ²	---
Nitrile Barrier Resin	4-5	0.8	2.4
Biaxially Oriented Nylon 6 (BON)	10	1.2	---
Biaxially Oriented Polypropylene (BOPP)	0.25-0.7	150	600-700
Polyethylene Terephthalate (PET)	1.8-3.0	4.8-9	30
Rigid Polyvinyl Chloride (PVC)	0.9-5.1	5-20	50
High Density Polyethylene (HDPE)	0.3-0.4	150	30-50
Medium Density Polyethylene (MDPE)	0.7	250	1000
Low Density Polyethylene (LDPE)	1.0-1.5	420	2,500
Polystyrene	7.0-11.0	350	1,000-1,500

NOTES:

1. P. T. DeLassus, *J. Vinyl Tech.*, **3**, 240 (1981).
2. EVOH O2TR = 1.15 cc mil./100 in² .24 hrs atm @ 23°C and 100% RH.

Besides providing excellent barrier to your substrate, Daran PVdC latex, due to its highly crystalline structure, also provides excellent resistance to many solvents, odors and flavors. It is transparent and can actually improve the clarity of the base film to which is it applied. It contains no metal so metal detection on your food packaging line is not a problem. In addition, it is heat sealable to itself as well as to other substrates and it provides an excellent surface for printing.

Add to all of this the fact that PVdC latex coated paper is repulpable which can help make your package more “green.”

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Still have questions? Please contact your Owensboro Specialty Polymers, Inc. Technical Sales Specialist.

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