DNP

Transparent Barrier Film
IB-PET-PIR2

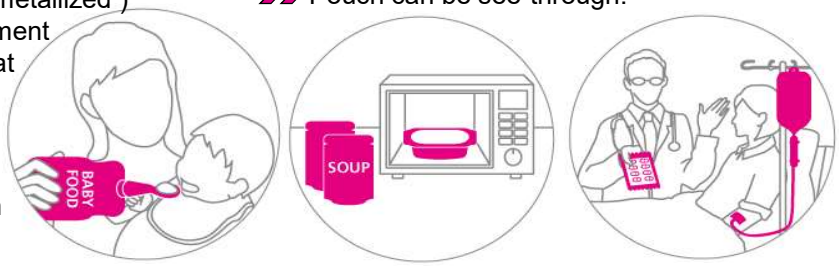
IB film

What's IB-PET-PIR2 ?

IB-PET-PIR2 is a new PET base transparent barrier film with excellent barrier and heat resistance utilizing PVD (=AlOx metallized) method and unique surface treatment newly developed by DNP to aim at retort food packages.

Remarks)
PVD : Physical Vapor Deposition

- Boil / retort applications are available
- Scannable, goes on metal detector
- Pouch can be see-through.



Basic Physical Data

Item	Unit	Measurement	Direction/Side	Values	Note
Thickness	μm	Dial gauge method	-	12	Typical Value
Tensile Strength	MPa	ASTM D882	MD	≧162	Typical Value
			TD	≧140	Typical Value
Tensile Elongation	%	ASTM D882	MD	≧70	Typical Value
			TD	≧70	Typical Value
Wettability	dyne/cm	ASTM D2578	Coated side	≧45	Spec
			PET side	40	Typical Value
Haze	%	ASTM D1003	-	1.5-5.0	Typical Value
Light TR	%	-	-	85-91	Typical Value

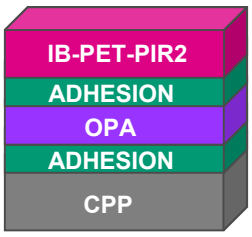
Remarks) The above typical values are not warranted except for spec which is DNP standard spec.

Barrier Properties – MOCON method

Base film	OTR cc/100inch^2.day.atm (cc/m^2.day.atm)	WVTR g/100inch^2.day.atm (g/m^2.day)
IB-PET-PIR2 Before retort	**0.006 (0.1)**	**0.019 (0.3)**
IB-PET-PIR2 After retort	**0.013 (0.2)**	**0.026 (0.4)**

Layer structure : IB-PET-PIR2 12 / DL / OPA15 / DL / CPP60
OTR : 23℃/90%RH (MOCON method)
WVTR : 40℃/90%RH (MOCON method)
Retort condition : 121℃ × 30 minutes

Remarks: The above values are measured but not warranted.
HP Indigo with Pack Ready Coating for retort has been verified.



URL: http://www.dnpamerica.com/feature_functional_films/