



I N N O V A T I O N

Technical data sheet

FB **PVC/EVOH/PE**

Characteristics	Designed with unique thermoforming properties, outstanding seal and peel seal characteristic for tailor- made product performance. PVC laminated with EVOH based PE suitable to pack food products, can be coated with PVdC to improve barrier properties. EVOH provides excellent oxygen barrier as well as helps retain aroma. PE layer helps in smooth thermoform cavity in blister and acts as contact and sealing layer.
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Possible Applications

Processed food – pasta in tray
Fish and seafood – fish, salami package, ham,
Dairy products – Cheese,
Bakery products – Baked products,
Catering products – Salad in tray

Parameters	Description	Unit
Surface of base film	glossy/glossy	NA
Colours of base film	Transparent clear, opaque white, customized	NA
Thickness range of base film	300-600 μm (PVC)	μm
Additional layer 1	PE + EVOH	μm
Types of PE film	Peelable and Sealable	
Thickness range of PE film	50 – 100 (PE)	μm
Additional layer 2	PVdC	g/m^2
Thickness of composite film	(PVC Thickness+ PE Thick +(PVdC GSM /1.7)	μm
Total Grammage	(PVC Thickness *1.35) + (PE Thickness * 0.951)+ PVdC GSM)	g/m^2
Yield	m^2/kg (1000 / Total Grammage)	m^2/kg

Properties

Sr. No.	Properties	Test method reference	Specification
1	Thickness of base film	DIN 53370	180 –200 μm $\pm 10 \%$ 250 – 350 μm $\pm 5\%$
2	Thickness of PE with 5 –7 μm EVOH	DIN 53370	50 μm $\pm 10 \%$
3	GSM of PVDC (Dry)	DIN 53352	40 g/m^2 $\pm 5\%$ 60 g/m^2 $\pm 5\%$ 90 g/m^2 $\pm 5\%$ 120 g/m^2 $\pm 5\%$
4	Tensile strength of base film	ASTM –D- 882	LD & TD 450 kg/m^2 (min)
5	Elongation of base film	ASTM –D- 882	LD & TD 30%
6	Dimensional stability (Oven, hot air)	DIN 53370 140°C / 10 min	Longitudinal (L) = - 7.0% maximum Transverse (T)= + 3.0% maximum
7	Softening Point	DIN 53460	76 to 77 °C

8	Impact strength	DIN 53448	≥ 450 kj/in ²
9	Water vapour transmission rate (guide value)	ASTM- F 1249	With 300 μ PVC film (gm/m ² /day, @38°C & 90 % RH) 1.8
10	OTR at 23 Deg.C. & 85 % RH	Oxtran carrier gas method	With 300 μ PVC (cm ³ /m ² /day) 12.00

Regulatory	Complies with the requirements of the European Pharmacopoeia and with Directive 2002/72/EC and amendments in their current version
	Complies with the relevant US Code of Federal Regulations CFR 21 and with the US Pharmacopoeia where applicable.
	Complies with Directive 94/62/EC and with US CONEG regulations.
	Formulation filed with FDA, DMF 15884 Type III.
	Production and quality controls according to cGMP rules

