

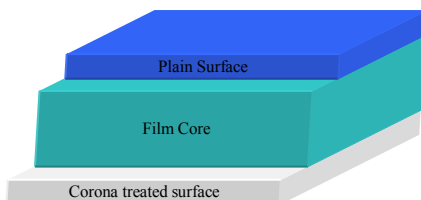
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PXL

Data Sheet (December 2005)

Product description

Nuroll PXL is a bi-axially oriented polyester (BOPET) film with the external side low corona treated.



Technical details

Nuroll PXL is usually supplied with following characteristics:

- **Core diameter:** 6 inches (152.76 mm)
- **Film width:** min 330 mm, max 2400mm
- **Film length:** According with film thickness, max external reel diameter (640mm), max reel weight (1000 kg)

Substrate Thickness (microns)	12	15	19	23	36	50
Max Reel length (m)	24000	18000	15000	12000	8000	6000

- **Packing presentation:** suspended reel; wooden endboards, lid and pallet; stretchable PE film

Different characteristics than the above on request

Storage conditions

Nuroll PXL need to be stocked in close warehouse and preserved from the light and from the humidity.

Reels must be not stacked

Nuroll will not accept any responsibility for material older than 1 year from the delivering

Compliance with regulations

Polyester Film produced by Nuroll SpA, complies with EEC, Italian and FDA requirements on packaging for direct contact with foodstuffs

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Typical Properties

Properties		Unit	Test Method	Typical values					
Thickness		Microns	ASTM E 252	12	15	19	23	36	50
Density		g/cm ³	ASTM D1505	1,395	1,395	1,395	1,395	1,395	1,395
Area Yield		m ² /kg	ASTM E 252	59,2	46,8	37,3	31,2	19,9	14,5
Tensile strength	MD	N/mm ²	ASTM D 882	220	220	230	230	230	210
	TD			250	250	240	240	240	220
Elongation at Break	MD	%	ASTM D 882	130	130	130	130	140	140
	TD			110	110	120	120	130	130
Thermal Shrinkage 150°C-30'	MD	%	ASTM 1204	1,3	1,3	1,3	1,3	1,4	1,4
	TD			0,8	0,8	0,6	0,6	0,8	0,8
C.O.F		Film/Film	ASTM D1894	0,4	0,4	0,4	0,4	0,4	0,4
Haze		%	ASTM D1003	3	3	3,5	3,5	4,5	5
MVTR (38°C, 90%RH)		g/m ² *day	ASTM E398	50	40	30	25	15	10
OTR (20°C, 0%RH)		cc/m ² *day	ASTM D3985	110	90	70	55	35	25
Surface tension on Corona treated side		Dynes/cm ²	ASTM D2578	50	50	50	50	50	50

1. This information is the best currently available on product and it is subject to revision as additional knowledge and experience is gained.
2. The results obtained and the above properties refer to average value of laboratory tests. Therefore, such results have only to be considered as an indicative general guide to material properties and not as an implied guarantee that the product actually has said properties and/or a warranty of fitness for a particular purposes and/or suggestion for infringement of any existing patents.
3. Due to many factors which may affect customer production process, including but not limited by different equipments and techniques used, PXL film must be qualified before being used in any application.