

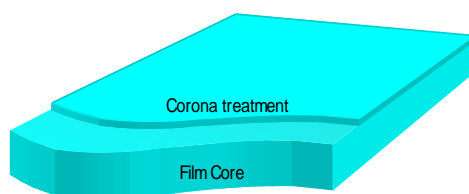
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PXE

Data Sheet (January 2021)

Product description

Nuroll PXE is a bi-axially oriented polyester (BOPET) film with the external side corona treated for the improvement of adhesion of inks and adhesives.



Technical details

Nuroll PXE is usually supplied with following characteristics:

- ⊕ **Core diameter:** 6 inches (152.76 mm)
- ⊕ **Film width:** min 600 mm, max 2400mm. Other widths to be agreed.
- ⊕ **Film length:** According with film thickness, max external reel diameter (780mm) , max reel weight (1000 kg)

Film Thickness (microns)	10	12	15	19	23	30	36	50
Standard reel length (m)	24000	24000	19000	10000	12000	9500	7500	4000
	36000	36000		15000				

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

Different characteristics than the above on request

Storage conditions

Nuroll PXE needs 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 delivery

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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PXE

Properties	Unit	Test Method	Typical values								
Thickness	Microns	ASTME 252	10	12	15	19	23	30	36	50	
Density	g/cm ³	ASTM D1505	1,395	1,395	1,395	1,395	1,395	1,395	1,395	1,395	
Yield (nominal)	m ² /kg	ASTME 252	71	59,2	46,8	37,3	31,2	23,9	19,9	14,5	
	g/m ²	ASTME 252	14,1	16,9	21,4	26,8	32,5	41,9	50,2	68,9	
Tensile strength	MD	N/mm ²	ASTM D 882	220	220	220	230	230	230	230	
		kg/inch		5,7	6,8	8,6	11,1	13,5	17,9	20,5	27,4
	TD	N/mm ²		260	250	250	240	240	240	240	240
		kg/inch		6,7	7,4	9,5	12,1	14,3	18,7	21,8	29,8
Elongation at Break	MD	%	ASTM D 882	120	130	130	130	130	140	140	140
	TD			110	110	110	120	120	130	130	130
Thermal Shrinkage 150°C-30'	MD	%	ASTM 1204	1,3	1,3	1,3	1,3	1,3	1,4	1,4	1,4
	TD			0,8	0,8	0,8	0,6	0,6	0,7	0,8	0,8
C.O.F	Film/Film	ASTM D1894	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	
Haze	%	ASTM D1003	2,6	3	3	3,5	3,5	4	4,5	5	
MVTR (38°C, 90%RH)	g/m ² *day	ASTM E398	65	50	40	30	25	20	15	10	
OTR (20°C, 0%RH)	cc/m ² *day	ASTM D3985	140	110	90	70	55	45	35	25	
CO ₂ TR (20°C, 0%RH)	cc/m ² *day	Internal method		600						135	
N ₂ TR (20°C, 0%RH)	cc/m ² *day	Internal method		40						6	
Surface tension	Dynes/cm ²	ASTM D2578	52	52	52	52	52	52	52	52	

⇒ For thicknesses different than those reported above it is necessary to agree a minimum order and to full chart the mother roll width

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, PXE film must be qualified before being used in any application.