

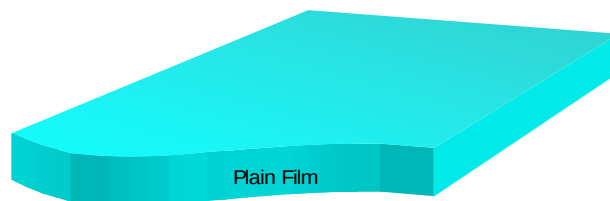
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Data Sheet (November 2021)

Product description

Nuroll P is a bi-axially oriented polyester (BOPET) plain film.



Main application:

Transfer printing, panels extrusion

Technical details

Nuroll P 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 (640mm) , max reel weight (1000 kg)

Film Thickness (microns)	12	15	19	23	36	50
Standard reel length (m)	24000	12000	10000	12000	8000	4000
	36000		15000			

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

Different characteristics than the above on request

Storage conditions

Nuroll P 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 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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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
Yield (nominal)		m ² /kg	ASTM E 252	59,2	46,8	37,3	31,2	19,9	14,5
		g/m ²	ASTM E 252	16,9	21,4	26,8	32,5	50,2	68,9
Tensile strength	MD	N/mm ²	ASTM D 882	220	220	230	230	230	230
		kg/inch		6,8	8,6	11,1	13,5	20,5	27,4
	TD	N/mm ²		250	250	240	240	240	240
		kg/inch		7,4	9,5	12,1	14,3	21,8	29,8
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
Surface tension		Dynes/cm ²	ASTM D2578	42	42	42	42	42	42

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