

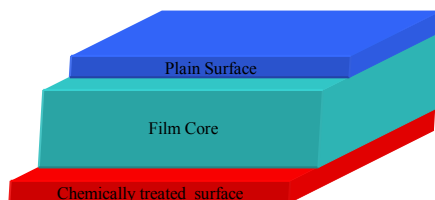
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## 12PKO

Data Sheet (December 2005)

### Product description

Nuroll PKO is a bi-axially oriented polyester (BOPET) special designed for lidding application, with one side chemically treated. PKO film is particularly suitable for applications where thermal process is required. PKO is a retortable film



### Technical details

Nuroll PKO is usually supplied with following characteristics:

- **Core diameter:** 6 inches (152.76 mm)
- **Film width:** min 330 mm, max 2100mm
- **Film length:** 12000, 24000 mt
- **Max reel weight:** 1000 kg
- **Packing presentation:** suspended reel; wooden endboards, lid and pallet; stretchable PE film

**Different characteristics than the above on request**

### Storage conditions

Nuroll PKO need to be stocked in a 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
Density		g/cm <sup>3</sup>	ASTM D1505	1,395
Area Yield		m <sup>2</sup> /kg	ASTM E 252	59,2
Tensile strength	MD	N/mm <sup>2</sup>	ASTM D 882	220
	TD			250
Elongation at Break	MD	%	ASTM D 882	130
	TD			110
Thermal Shrinkage 150°C-30'	MD	%	ASTM 1204	1,3
	TD			0,8
C.O.F		Film/Film	ASTM D1894	0,4
Haze		%	ASTM D1003	3
MVTR (38°C, 90%RH)		g/m <sup>2</sup> *day	ASTM E398	50
OTR (20°C, 0%RH)		cc/m <sup>2</sup> *day	ASTM D3985	110
Surface tension on Corona treated side		Dynes/cm <sup>2</sup>	ASTM D2578	52
Isotropy film value (Min-Max)		Max tensile strenght		in all direction <1,5
		Min tensile strenght		
		Max elongation at break		in all direction <2
		Min elongation at break		

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