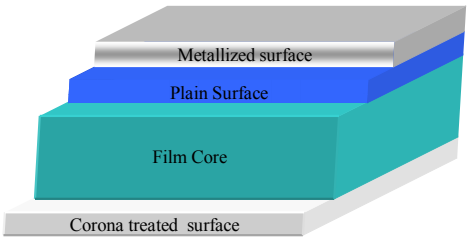
Metallized Isotropic

12POM

Data Sheet (December 2005)

Product description

Nuroll 12POM is a bi-axially oriented isotropic polyester film, one side metallized, one side corona treated, specially designed for lidding applications and where excellent barriers properties are required.



12POM standard metallization is on untreated side, corona treated surface is free for printing and/or lamination

Main Applications

Yogurt cups lidding

Recommendations

-Unprotected metallized side must be not in contact with foods

-12 POM is not suitable for pasteurization

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Technical details

Nuroll 12POM is usually supplied with following characteristics:

- **Core diameter**: 6 inches (152.76 mm)
- **Film width**: min 330 mm, max 2100mm
- **Film length**: 12000, 24000 m
- **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 12POM 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
Optical Density		O.D.	Giflex (Macbeth)	2,2 / 2,4
Tensile strength	MD	N/mm^2	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
MVTR (38°C, 90%RH)		g/m^2*day	ASTM E398	0,5
OTR (20°C, 0%RH)		cc/m^2*day	ASTM D3985	1
Surface tension on Corona treated side		$Dynes/cm^2$	ASTM D2578	52
Isotropy film value (Min-Max)		$\frac{\text{Max tensile strenght}}{\text{Min tensile strenght}}$		in all direction <1,5
		$\frac{\text{Max elongation at break}}{\text{Min elongation at break}}$		in all direction <2

*Others optical density on request

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

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