

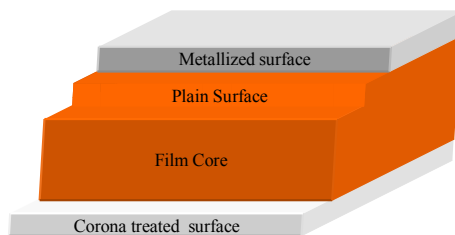
# Gold Metallized

## 12PGM

Data Sheet (December 2005)

### Product description

Nuroll 12PGM is a bi-axially oriented polyester amber mass coloured film, one side corona treated, one side metallized, specially designed for flexible packaging applications. 12PGM film also offers excellent barrier properties



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

### Main Applications

Lamination with cardboard for cosmetic;

### Recommendations

- Unprotected metallized side must be not in contact with foods
- PGM cannot be used at temperature exceeding 80°C
- PGM is not suitable for pasteurization

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### Technical details

Nuroll 12PGM is usually supplied with following characteristics:

- **Core diameter:** 6 inches (152.76 mm)
- **Film width:** min 330 mm, max 2000mm
- **Film length:** 18000 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 12PGM 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	
Optical Density *	O.D.	Gilex (Macbeth)	2,2 / 2,4	
Area Yield	m <sup>2</sup> /kg	ASTM E 252	59	
Tensile strength	MD	N/mm <sup>2</sup>	ASTM D 882	210
	TD			230
Elongation at Break	MD	%	ASTM D 882	130
	TD			110
Thermal Shrinkage 150°C -30'	MD	%	ASTM 1204	1
	TD			0,8
MVTR (38°C, 90%RH)	g/m <sup>2</sup> *day	ASTM E398	0,5	
OTR (20°C, 0%RH)	cc/m <sup>2</sup> *day	ASTM D3985	1	
C.O.F.	Film/Film	ASTM D1894	0,4	

\*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, PGM film must be qualified before being used in any application.