

Metallic

PET 12μ / ALU 9μ / PE 70μ

Description

This material can be used to create metallic effects on the whole packaging or on some areas. It is provided with high protection from UV rays, heat and oxygen (aluminium), it is more rigid compare to other materials.

Choose it for

Food products that need protection from UV rays and heat such as coffee, dry food, organic baked goods, chocolate or if you want to obtain a more neutral result, simulating a laminating effect.

Advantages

High brilliance, it protects from oxygen, heat and UV rays, keeps aroma, extends the shelf life.

MATERIAL COMPOSITION



Multi-layered glossy aluminium film
n. 3 Layers

- ① **PET**
Exterior layer
External film that protects inks and the barrier, ensuring high resistance
- ② **ALU**
Intermediate barrier film
UV rays, heat, oxygen protection to prolong product's shelf life
- ③ **PE**
Sealing inner layer

PHYSICO-CHEMICAL PROPERTIES

UNIF OF MEASURE

TEST METHOD

PET

ALU

PE

Nominal thickness	my	ASTM E 252	12	9	70
Tolerance on nominal thickness	%	ASTM E 252	2	2	8
Total thickness	my	ASTM E 252		~ 91	
Density	g / cm3	ISO 1183	1,4	2,71	0,92
Weight per square metre	g / m2	Giflex n° 1	16,8	24,39	64,4
Total basis weight	g / m2	Giflex n° 1		~105,59 ± 10%	
Tensile strength	N x mm2	UNI EN ISO 527	210	140	37
Lengthening	%	UNI EN ISO 527	90	1	440
Max thermal withdrawal	%	ASTM D 2732	-	1	-
Max friction coefficient	-	ASTM D 1894	0,60	0,50	0,22
Friction coefficient coupled int/int	-	ASTM D 1894		~0,20	
Surface tension	dyne / cm	ASTM D 2578	52	40	> 38
Minimum seal temperature	°C	ASTM F 88	-	-	~ 130
Sealing resistance	N/ 15 mm	ASTM F 88	-	-	3
Treatment	n.a.	n.a.	Corona	-	-
Permeability O2 multi-layer	23°C 0% rh - cm3 / m2 day bar	ASTM D 3985		< 0,05	
Permeability W.V.T.R.* multi-layer	38°C 90% rh - g / m2 day	ASTM F 1249		< 0,05	

It contains about gr 1,9 of bicomponent polyurethanic adhesive and about gr 1,8 of ink

n.a. not applicable

CONCLUSIVE EXPLANATION:

The information contained in this publication is accurate to the best of our current knowledge. All the materials used for the production of this are in compliance with Italian law and European regulations concerning use in contact with food. We declare that no waste and / or post-consumer materials are used for production. This plastic film must be preserved from direct light and a temperature below 25 ° C, it must be used within 6 months from the date of production. After the period and / or the non-observance of the conservation requirements, the above performance will lapse as well as the declared standards.

LIMITATION OF USE: NO HEATING IN MICROWAVES, NOT PASTEURISATION AT TEMPERATURE > 87 ° C, NO FROSTING AT TEMPERATURE < -25 ° C

LEGEND:

ASTM E 252: test method for the evaluation of the thickness of the film through the weight
ISO 1183: test method for determining the density of plastic materials
UNI EN ISO 527-1 and -3: method for determining the traction properties of the general part and films and slabs
ASTM D 2732: test method for linear thermal shrinkage of films and sheets
ASTM D 1894: test method for measuring the friction coefficient of plastic films and sheets
ASTM D 2578: test method for surface measurement or wetting of polyolefin films
ASTM F 88: test method for the resistance of flexible plastic film welds
ASTM D 3985: test method for oxygen transmission speed through plastic films
ASTM F 1249: Test method for water vapor transmission speed through plastic films
W.V.T.R. *: water vapor transmission rate (water vapor transmission speed)