

PRODUCT

Pharmaceutical push through foil, unprinted

MATERIAL COMPOSITION

Primer for printing / Aluminium 20µm hard tempered / Thermosealable lacquer to PVC/PVDC

Stratigraphy composition	Code	Thickness (µm)		Weight (g/m ²)		Chemical composition
		Value	Tol.	Value	Tol.	
Primer	CT311	-	-	0,8	± 0,2	Polyester
Aluminium hard tempered		20,0	± 1,6	54,0	± 4,3	DIN EN 573-3 EN AW 8079
Heat seal	CT15	-	-	7,0	± 1,0	Vinyl-acrylic
Overall		27,8 (*)	± 2,8 (*)	61,8	± 5,5	

(*) Obtained from grammage

MATERIAL PROPERTIES

Residual solvent (IO 13)	<= 10 mg/m ²
Varnishes adhesion to the substrate (IO 06)	No detachment
Bonding to PVC (IO 05)	>= 6 N/15mm (220°C - 267 N/cm ² - 1 second - 180°)
Bonding to PVDC (IO 05)	>= 6 N/15mm (220°C - 267 N/cm ² - 1 second - 180°)
FT-IR Spectra heat-seal lacquer compare (IO 34)	>= 98,5 %
Melting point of thermosealable varnish (IO 17)	100 °C ± 5
Primer for printing resistance to temperature (IO 11)	<= 290 °C
Ultimate tensile strength of aluminium (ASTM D882)	>= 150 MPa
Elongation to aluminium break (ASTM D882)	>= 1,5 %
Water vapor permeability (DIN ISO 15106-3)	<= 0,01 g/m ² (24h - 38°C / 90% r.h. and 25°C / 100% r.h.)
Oxygen permeability (DIN 53 380-3)	<= 0,005 cc/m ² (24h - 23°C / 50% r.h. and 25°C / 50% r.h.)

CLEARANCE CERTIFICATE

Product	This laminate is registered at the Food and Drug Administration with the DMF number 11322. CE Regulation 1935/2004 - 1895/2005 - 2023/2006 (GMP). Directive 94/62/CE and CONEG. EMA/410/01. It doesn't contain phthalates.
Thermosealable lacquer	FDA 21 CFR § 175.300 Directives 2002/72/CE - 2004/19/CE - 2005/79/CE - 2007/19/CE CE Regulation n. 10/2011 and subsequent directives Resolution of the Council of Europe AP(2004)1 Italian Ministerial Decree of 21/03/1973 and subsequent directives

WARRANTY, STORAGE AND SHELF-LIFE

This warranty is only valid if the following conditions of storage are observed:

Condition of storage	Recommended storage conditions: - no direct sunlight - room temperature between 18°C - 30°C (optimum 18°C - 20°C) - relative humidity between 40% and 60% (optimum 40% - 50%)
Workability	Maximum 2 years from delivery date for sealing. Maximum 1 year from delivery date for printability.
Function	Maximum 5 years after processing on the packaging line.

LIABILITY EXCLUSION

Data mentioned in the technical specification, obtained in our laboratory or in our raw material supplier's laboratories, are valid as a general indication for the use of the product.

So, even if valid, they don't bind our Company that can not check the conditions of their use.