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/m²)		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/m²
Varnishes adhesion to the substrate (IO 06)	No detachment
Bonding to PVC (IO 05)	>= 6 N/15mm (220°C - 267 N/cm² - 1 second - 180°)
Bonding to PVDC (IO 05)	>= 6 N/15mm (220°C - 267 N/cm² - 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)	<= 0,001 g/m² (24h - 38°C / 90% r.h. and 25°C / 100% r.h. - detection limit)
Oxygen permeability (DIN 53 380-3)	<= 0,005 cc/m² (24h - 23°C / 50% r.h. and 25°C / 50% r.h. - detection limit)

CLEARANCE CERTIFICATE

Bisphenol-A statement	The product is "BPA-free". Conformity of the product to the current norms is guaranteed by Aluberg according to the certifications issued by the suppliers of raw materials. The company assures not using Bisphenol-A or its derivatives during the production process. Any impurities of this substance, in the extend of ppm, could be present because deriving from the production process of the raw materials or as a random pollutant.
Product	This product is registered at the Food and Drug Administration with the DMF number 11322. This product is registered in China at the NMPA CDE with registration number B20190007084. CE Regulation 1935/2004 - 1895/2005 - 2023/2006 (GMP). Regulation (EU) 40/2025 EMEA/410/01. It doesn't contain phthalates.
Nitrosamines statement	The product is Nitrosamines-free. The product doesn’t include within its composition nor Nitrosamines as such neither possible precursors of the same. The presence of such chemicals is excluded both by our raw material suppliers and specific analysis, performed periodically, in order to exclude the presence of such chemicals also as Not Intentionally Added Substances as well as impurities/contaminants. Anyhow Aluberg doesn’t check each batch produced for Nitrosamines presence, and a.m. analysis are conducted on scheduled base.
Thermosealable lacquer	FDA 21 CFR § 175.300 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.