



Thermo Top Plus

Permanent

Characteristics Label

Label material	Thermal Top Plus permanent
Raw material	1901010
Adhesive bond	Rolls
Product	A top and reverse side barrier coated thermal paper with a standard sensitivity produced totally without BPA-based chemistry. This face paper is made from FSC™-certified (mix credit) pulp.
Use	Designed for a wide range of industrial applications including pre-packed foodstuffs labelling where premium resistance to vegetable oil and water is required.

Typical technical values

Substance	75	g/m ²	ISO 536	
Caliper	74	µm	ISO 534	
Tensile strength MD	4.70	kN/m	ISO 1924/2	min
Tensile strength CD	2.30	kN/m	ISO 1924/2	min
Brightness	93	%	ISO 2470/1	
Imaging colour	Black			
Scanning	Visible red light (wavelength up to 650 nm).			
DT printing speed	Direct thermal printing speed up to 200 mm/s.			
Optical density	Direct thermal print 1.20 (min)			

Printability Suitable for direct thermal, UV- and water-based flexography, UV-letterpress and UV-offset.

Additional info Direct thermal printability speed up to 200 mm/s (plain label).

Storage Recommendations Store at constant temperature (20° C, RH 50 %) in the dark. Exposure to strong sunlight or strong artificial light should be avoided. Also avoid the influence of aggressive chemicals.

Characteristics Adhesive

Adhesive	Permanent
Type	Very strong permanent adhesive.
Composition	Rubber, hotmelt.
Use	Extra high-tack adhesive for papers and films in combination with paper liners. High coatweight, high initial adhesion and final strong adhesion makes it ideal for labelling very rough substrates.

Typical technical values

Tack	30	N/25mm	FTM 9
PE-Looptack	15	N/25mm	modified FTM 9
Labeling temp. min.	5	°C	
Service temp. min.	-20	°C	
Service temp. max.	50	°C	

Limitations	Should not be exposed to direct sunlight or high temperatures for long periods. Not suitable for labelling of plasticised PVC.
--------------------	---

Characteristics Glassine

Backing	HONEY GLASSINE 65
Product	Yellow transparent glassine backing paper.
Use	Designed for all reelstock applications; suitable for automatic dispensing.

Typical technical values

Substance	57	g/m ²	ISO 536
Caliper	51	µm	ISO 534
Tensile strength MD	6.2	kN/m	ISO 1924
Tensile strength CD	2.3	kN/m	ISO 1924
Transparency	49	%	DIN 53147

Shelf life	From date of manufacture: 12 months, under FINAT defined storage conditions (+20-25° C and RH 40-50 %). Prolonged storage at higher temperatures and/or humidity levels will shorten the shelf life.
-------------------	--

Disclaimer

The performance of the product should always be tested in the actual application conditions. Our recommendations are based on our most current knowledge and experience. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use. Users of our products are solely responsible that the product is suitable for its intended application, and have determined such at their sole discretion. Users must comply with any applicable legislation and/or testing requirements for the finished article, and are responsible for bringing their products to market.

This publication does not constitute any warranty, express or implied, and is intended only for the recipient and cannot therefore be transferred to any third party. We cannot assume any liability for the use of our products in conjunction with other materials.

All our products are sold subject to Carl Valentin's general sales conditions, and you should ensure that any existing laws are observed.

This publication replaces all previous versions. All information is subject to change without notice.



Carl Valentin GmbH
Neckarstraße 78 – 86 u. 94
78056 Villingen-Schwenningen
Phone + 49 7720 9712 - 0 . Fax + 49 7720 9712 – 9901
info@carl-valentin.de www.carl-valentin.de

