



Paper Specification

Thermal Printer

C56

© by HENGSTLER

For this documentation the company Hengstler GmbH claims the protection of author rights.

Without the written agreement of Hengstler GmbH it is not allowed to change, to upgrade, to copy this documentation. Nor to hand down the documentation to a third party.

Hengstler reserves the right to upgrade technical modifications and improvements, which conduce to the progress of our products.

HENGSTLER GmbH
Uhlandstr. 49
78554 Aldingen / Germany
Tel. +49 (0) 7424-89 0
Fax +49 (0) 7424-89 500
eMail: info@hengstler.com
www.hengstler.com



PHYSICAL AND CHEMICAL SPECIFICATIONS

No.:	Characteristics:	Value:	Standard:
1. a	Paper weight:	50 g/sqm-60 g/sqm	ISO 536 DIN 53104
1. b	Width of paper roll:	58 - 60,0 mm (2,29" – 2,39")	
1. c	Diameter of paper roll:	< 100 mm (4")	
1. d	Paper roll		
	Core diameter:	25,4 mm (1") + 0.2 mm	
	Core thickness:	<4 mm	
	Core material:	Plastic or paperboard	
	Paper make:	Start of the paper roll – adherent, Paper end not glued to the core or folded	
1. e	Thermal sensitive side:	Outside	
2. 1	Black Mark (BM)		
2. a	Dimension:	Height: 4 mm Width – pos 1 / 2 / 3: 8 mm	
2. b	PCS value:	Print contrast (PCS) > 80%	DIN 66223
2. c	Absorption in the infrared band	Absorption: min 80%	
2. d	Function:	Formatting and paper-out	
2. e	Colour:	Black, achromatic black	
2. f	Position/Dimension:	See attachment	
3. a	Printing reverse side:	During information print on „reverse side“ between BM and print only PANTONE security colours are allowed. The PCS value according to Macbeth RD 924 should be < 20%	
3. b	Printing obverse side:	General paper specification of BDT - see enclosed	
4.	Colour of paper:	White	
5.	Smoothness of paper:	> 300 Bekks	ISO 56274 DIN 53105
6.	Thickness of paper:	50-61 µm + 4 µm	ISO 534
7.	Degree of reflection:	> 75%	DIN 53145 part 1
8.	Paper stiffness:	0.33 - 0.5 / ±0.1 m Nm longitudinal 0.16 - 0.25 / ±0.5 m Nm transversely	ISO 2439
9.	Tenacity:	> 400 mN	ISO 1974
10.	Breaking strength:	Longitudinal: > 250 mN Transversely: > 250mN	ISO 1924-2 ISO 1924-2
11.	Tensile strength:	MD: > 6 CD: > 3.4	ISO 1924-1
12.	Content of humidity:	6.5 / ± 1.0%	ISO 287
13.	Whiteness:	80-88%	ISO 2470

PHYSICAL AND CHEMICAL SPECIFICATIONS

No.:	Characteristics:	Value:	Standard:
14.	Opacity:	> 85%	DIN 53146
15.	Grade of fibrous material:	ECF, softwood and hardwood pulp, Z 100	DIN 827
16. a	Static sensitivity:	initial temperature (D=0.2): 75 / $\pm 5^{\circ}\text{C}$	
16. b	Dynamic sensitivity:	effective temperature (D=0.8): 105 / $\pm 5^{\circ}\text{C}$	
17.	Density:	min. 1.0 D (Macbeth RD-918)	
19.	Storage:	temperature 20 / $\pm 5^{\circ}\text{C}$ humidity 60 / $\pm 10\%$ RH Paper should not be stored in a foil. Please avoid direct insolation!	
20.	Cleanness:	Cut without dust - perforation / punching.	
21.	Reference paper (max. storage):	Appleton: Alpha 700 – 2.4 (7 Jahre)	

Comment:

This paper specification is a special specification which applies only to the thermal printing system C56. This specification has been elaborated with a lot of care and thoroughness. HENGSTLER accepts no responsibility / liability for errors or faults indications of this specification. Consequences resulting of this specification can also not be accepted. Hengstler GmbH reserves the right to change the technical data of this specification at every time.

DIMENSION

