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SISTEMA QUALITÀ CERTIFICATO
 UNI EN ISO 9001:00 - CERT. 5069190

TECHNICAL DATA SHEET

	DATE	29/ 08 / 17	Rev.	1
PRODUCT	DB 101 CHILDREN'S MARKER			
COSTUMER REFERENCE				
SUPPLIER	DOBELL S.p.A.			
MANUFACTURING PLACE	Mappano –Turin - Italy			

1. INTENDED USE
Colouring pen for children.

2. PHISICAL AND DIMENSIONAL FEATURES

CARACTERISTICS	SPECIFICATIONS	TOLERANCE
Available colours	100	
Description of ink	Water base	
Diameter of the nib (mm)	2 mm	
Thickness of writing(mm)	0.7 - 1 mm	
Blocking nib system	Mechanical	
Kind of cap (ventilated,...)	Ventilated cap	
Personalization of the fibre pen	Hot printing	
Colour of the cap	Ink colour	
Production code	Available	
Shelf life	> 2 Years	

CARACTERISTICS	SPECIFICATIONS	TOLERANCE
Quantity of ink (g)	1,30	+/- 10%
Weight of the fibre pen (g)	5,98	+/- 1%
Weight of the different parts (g) :		
• Cap	1,23	+/- 1%
• Barrel	2,36	+/- 1%
• Stopper	0,51	+/- 1%
• Cartridge	0,36	+/- 1%
Total dimension of marker (mm):		
• Length	150	+/- 1%
• Diameter	8,10	+/- 1%
Dimensions of different parts (mm) :		
• Cap (Ø x L)	10 x 59	+/- 1%
• Barrel (Ø x L)	135	+/- 1%
• Stopper (Ø x L)	8 x 2	+/- 1%
• Cartridge (Ø x L)	5,6 x 85	+/- 1%

3. CHARACTERISTICS AND COMPOSITION OF ROUGH MATERIALS

CARACTERISTICS	SPECIFICATIONS	TOLERANCE
Composition of different parts :		
• Cap	Polypropylene	
• Barrel	Polypropylene	
• Stopper	Polypropylene	
• Cartridge	Polyester	
• Nib	Nylon	

4. MECHANICAL/ ANALYSIS/CHEMICAL FEATURES

CARACTERISTICS	SPECIFICATIONS	TOLERANCE
Writing lengths (m)	> 400	+/- 10%
Ink washability		
• On the hands (with and without soap)	With warm water and soap.	
• On the textiles (Washing Temperature)	35°	
Resistance of body to pressure (N)	> 30	+/- 10%

5. LAWS AND NORMS

The plastic components of the pen body (barrel, cap, tip, ink carrier,...) are produced by materials tested for the cadmium and phthalates content, according to the REACh (EC) No.1907/2006, Annex XVII. Test reports are available as a proof of the quality and safety of the materials used in Dobell.

The ink is waterbased and is not classified according to the REACh regulation. Therefore, the product does not need to be labeled, according to the CLP regulation for chemical substances and mixtures.

The pen has been tested and results compliant to the following requirements :

- EN71-1 :2011, Mechanical and Physical properties ;
- EN71-2 :2011, Flammability test ;
- EN71-3 :2013, Migration of certain elements ;
- EN71-9 :2005, Requirements for colourants, primary aromatic amines, monomers, plasticizers, solvents and preservatives ;
- BS7272-1 :2008, Specification for safety caps - risk of asphyxiation ;
- BS7272-2 :2008, Specification for end closures – risk of asphyxiation.

Therefore, the pen is allowed to be used by children, according to the 2009/48/CE regulation. The declaration of compliance to the CE marking is available.

DB 101 CHILDREN'S MARKER

