

# Product data sheet

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Article description	
STAEDTLER Lumocolor permanent marker <b>348 duo permanent marker</b>	<b>Made in Germany</b>

Constituents	
Inks:	Alcohol based Dyestuffs Binding agent and additive
Holder:	Plastics: Barrel / cap PP Sealing (in the cap with clip): PE Refill station 488 48: PP
Packaging:	STAEDTLER Box: PP
PP: polypropylene, PE: polyethylene	

Conformity	
STAEDTLER Lumocolor permanent marker, 348 meet the standards:	
ISO 11540	'Caps for writing and marking instruments intended for use by children up to 14 years of age – Safety requirements'. Ventilated caps reduce the danger of asphyxiation for children up to the age of 14 should caps be swallowed accidentally.
ASTM D-4236	These products are tested by ACMI (Art & Creative Material Institute) and conform to the US-Standard ASTM D-4236. According to the standard, a qualified toxicologist tests the products.
The products meet the Regulations (EG) No. 1907/2006 (REACH) and No. 1272/2008 (CLP) concerning the Registration, Evaluation, Authorization and Restriction of Chemicals.	

Usage notes	
Dry safe:	Can be left uncapped for days without drying up. Test conditions according to ISO 554.
Airplane-safe:	Automatic pressure equalisation prevents the pens from leakage during flight.
Lightfastness:	Color Black is very resistant.
Line widths:	<b>F</b> ca. 0,6 mm <b>M</b> Bullet tip ca. 1,5mm <b>B</b> Chisel tip ca.1,5mm - 4mm
Refill 488 48:	Available for the colours red, blue, green and black REACH SAFETY DATA SHEETS for the refill station 488 48 can be provided to commercial buyers.

**Staedtler** has been certified to ISO 9001 and ISO 14001 and considered in the selection of raw materials and their processing in the relevant national and international laws to protect the users.