

Regulations and norms overview

Certifications	Category	Inks				
		1500 1550	1501 1551	1502 1552	1200 1250	1470
REACH compliance	EU regulation for human health and the environment	✓	✓	✓	✓	✓
Greenguard Gold	Indoor air quality		✓	✓	✓	✓
AgBB / ABG		✓	✓	✓	✓	
VOC French legislation A+		A rating	✓	✓	✓	
Ikea Chemical air release		✓	✓	✓	✓	
BREEAM int: VOC emissions requirements / M1		✓	✓	✓	✓	
EN71-3	Safety for toys (Metal migration)	✓	✓	✓	✓	✓
RoHS2	Electrical and electronic equipment	✓	✓	✓	✓	✓
Ikea Organotin level	Migration of organotin				✓	
Avery Denison ICS Performance Guarantee	Substrate supplier guarantee program		✓			

Different categories:

- **Regulations on the ink**
- **Ink certifications** based on prints properties
- **Standard and regulations for APPLICATIONS:** inks comply with the requirements
- **Substrate supplier guarantee program:** media-ink-printer comply with application

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Regulations on the ink



REACH is a regulation of the European Union, adopted to improve the protection of **human health and the environment** from the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry.

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Ink certifications

based on prints properties



Norms are related to **chemical emissions** / air quality for **indoor applications**.

The test measures the emission from prints in the air of **VOC's** (Volatile organic compounds). Some VOC's at high concentration can be toxic and lead to chronic disease or cancer. The difference between the different certifications (Greenguard Gold, AgBB etc..) is that they originate from different countries and the VOC concentration criteria differ.

AgBB is the German norm, A+ is French norm, M1 is Finnish, UL Greenguard is actually American norm but very widely spread.

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Standard and regulations for APPLICATIONS: inks comply with the requirements



EN 71 is a European standard that specifies requirement for **toys**. EN71-3 specifies the requirement for the **migration of metals**. The purpose of the limits is to minimize children's exposure to certain potentially toxic elements.

RoHS are European directive that apply restrictions on the use of certain hazardous chemical substances in **electrical and electronic equipment** (EEE). Our inks can be used in the manufacturing of EEE and meet the requirements regarding hazardous chemicals of RoHS,

IKEA has banned and restricted substance lists, specific per product family (ref. IKEA IOS MAT standards). Some of these requirements are applicable to the ink used. Among them, the criteria that can be a problem with our UV inks are the presence of CMR substances and the migration of organotin compounds.

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Substrate supplier guarantee program:

Media-ink-printer comply with application



ICS performance guarantee combines Avery Dennison films (Self adhesive vinyl) with qualified components to form a system which is guaranteed to be compatible and provide outstanding performance.