



LEVELS OF HALOGENS IN UPM RAFLATAC LAMINATES

Halogens is a group of non-metallic elements. The most common one is chlorine, which exist in many chemicals and components.

Halogen Free has been defined by the IEC (International Electrotechnical Commission) standard IEC 61249-2-21: as meaning:

900 ppm maximum chlorine
900 ppm maximum bromine
1500ppm maximum total halogens

UPM Raflatac manufactures self-adhesive laminates which are processed by label converters into labels for various applications, some of which may be used on electrical equipment.

An independent laboratory has carried out an analysis of laminates manufactured by UPM Raflatac using a standard method measurement (EN 14582: 2007) known as Ion Chromatograph (IC) method. Samples of various adhesives with uncoated papers, coated papers, synthetic/filmic face materials – on both glassine and kraft backing papers have been tested. The results showed that laminates manufactured by UPM Raflatac contain an amount less than 1500 ppm of Fluorine, Chlorine, Bromine and Iodine in total.

Typical values for UPM Raflatac self-adhesive laminates are:

Fluorine(F)	less than 80 ppm
Chlorine(CI)	less than 350ppm
Bromine(Br)	less than 50 ppm
Iodine (I)	less than 50 ppm

According to the IEC 61249-2-21 standard UPM Raflatac laminate can be considered "Halogen Free"

UPM RAFLATAC

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This information is for guidance only, it is based on our most up-to-date knowledge and experience. However, this statement does not constitute any warranty, express or implied.

The information in this statement applies to UPM Raflatac Labelstock products and does not include information about RFID products manufactured using Labelstock