

Testing of Packaging and Food Contact Materials



Founded in the 19th century during the Industrial Revolution, the TÜV NORD GROUP is one of the world's largest Inspection, Certification and Testing organizations. With a current workforce of over 10,000 employees across 70 countries globally, it is easily recognized by all stakeholders as one of the world's largest, most competent, ethical and professional service providers.

TUV India Pvt. Ltd. was established in 1989 as part of the German RWTÜV group's Indian operations, now the TÜV NORD GROUP, as one of the first Certification Bodies to start operations in India; since then, it has been closely associated with the quality revolution in India. With over 500 employees in more than 25 locations and state-of-the-art laboratories across India, TUV India is never far from its customers.

TUV India has set up state-of-the-art testing laboratories in Pune and Bengaluru offering a wide spectrum of high-end analytical services:

- Equipped with some of the latest, technologically most advanced instruments in the world, being used by labs in EU and the US
- Specialize in trace level analysis following internationally validated test methods.

TUV India Advantage

Latest Analytical Equipment

- LC Q-TOF
- LC-MS/MS triple quad
- GC-MS-HS-ECD
- GC-MS/MS triple quad
- GC-FID
- ICP-MS
- ICP-OES
- HPLC-ELSD-PDA-FI
- HPLC –UV
- FTIR
- UV- VIS Spectrophotometer

Commission Regulation (EU) No 10/2011 of 14th January 2011 on plastic materials and articles intended to come into contact with food. The new Regulation 10/2011 is a specific measure within the meaning of article 5 of Regulation 1935/2004 that fixes:

Materials and articles, including active and intelligent materials and articles, shall be manufactured in compliance with good manufacturing practice so that, under normal or foreseeable conditions of use, they do not transfer their constituents to food in quantities which could:

- (a) endanger human health; or
- (b) bring about an unacceptable change in the composition of the food; or
- (c) bring about a deterioration in the organoleptic characteristics thereof.

The new Regulation 10/2011 shall apply to:

- (a) materials and articles and parts thereof consisting exclusively of plastics;
- (b) plastic multi-layer materials and articles held together by adhesives or by other means;
- (c) materials and articles referred to in points a) or b) that are printed and/or covered by a coating;
- (d) plastic layers or plastic coatings, forming gaskets in caps and closures, that together with those caps and closures compose a set of two or more layers of different types of materials;
- (e) plastic layers in multi-material multi-layer materials and articles.

List of groups of materials and articles which may be covered by specific measures

1. Active and intelligent materials and articles
2. Adhesives
3. Ceramics
4. Cork
5. Rubbers
6. Glass
7. Ion-exchange resins
8. Metals and alloys
9. Paper and board
10. Plastics
11. Printing inks
12. Regenerated cellulose
13. Silicones
14. Textiles
15. Varnishes and coatings
16. Waxes
17. Wood

Some of the applicable guidelines

European Guidelines	US Regulations	Food Grade Testing as per
Overall Migration Test Specific Migration Test EU 1282/EU 10 2011/EEC 2002/72 EC 1935/2004 AP Resolutions PAH, Pthalates Extractable Heavy Metals (Lead ,Cadmium , Mercury ,Chromium-VI) EN 71-3, TPCH (94/62/EEC/ASTM) PCB, PCP Odour Test /Sensory Test Organotin Release(TBT, DBT, MBT)	Food Safe Test (IS 9845/EU 10 2011,FDA) FDA 21 CFR 177.1520 FDA 21 CFR 177.1630 FDA 21 CFR 175.300 FDA 21 CFR 177.2600	IS 9845 (Bureau of Indian Standards) Japan Food Sanitation Act LFGB (German regulations for Food Contact Materials) GB 13113

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