



## Food & Water Contact and Packaging Material Testing

Food Contact and Packaging Material are those that come in contact with food and water. These materials and articles should be sufficiently inert to prevent substances being transferred

to food in quantities large enough to endanger human health or to bring about an unacceptable change in the composition or deterioration in the quality and safety of food.

### Productes Tested

#### Packaging Material

- PET Bottles
- PC Jar
- PE Pouches
- Laminates
- Cups & Glasses
- Woven sacks for Food grains and Sugar
- Aluminum Foil
- Laminates
- Films (BOPP, Poly, PET, HDPE, LDPE)
- Paper & Paper board Products
- Metallic & Tin Containers
- Others

#### Food contact Material (Materials for Single/Repeated Use)

- Melamine plastic for Tableware
- Stainless steel cooking Utensils
- Pressure Cookers
- Aluminum Utensils
- Food storage containers
- Non-stick ware
- Kitchenware
- Ceramic/Glassware
- Silicon Products
- Rubber Products
- Plastic Products
- Paper Products
- Others

## TEST PARAMETERS

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## TEST PARAMETERS

### Chemical & Residue Tests

- **Metals**
  - Undesirable elements content (Lead, Cadmium, and Mercury)
  - Specific Release for Metals as Contaminants and Impurities for single and repeated use
  - Specific Release for Metal and Alloy Components for single and repeated use
  - Overall Migration for metals coated with polymer
  - Specific Migration for metals coated with organic and epoxy coating
  - Impurities (Cu, Si, Fe, etc) for Aluminium Utensils
- **Ceramics, Glass, Thermal Glass & Other Glass Hollowware**
  - Leachable Lead
  - Cadmium
  - Chromium VI

### Silicones & Natural Rubber

#### Overall Migration

- Poly aromatic hydrocarbons
- Volatile Organic Materials
- Peroxide Residues
- Specific migration of Organotin for Silicone products
- Specific Migration of Aromatic Amines, Formaldehyde,
- N-Nitrosamines, N-Nitrosatable substances in Natural Rubber

### Plastic

- Overall Migration
- Bisphenol A
- Polycyclic Aromatic Hydrocarbons (PAH)
- Color Release
- Sulphonated Aromatic Amines
- Primary Unsulphonated Aromatic Amines
- Extractable Poly chlorinated biphenyls

### Specific Migration

- Heavy Metals
- 1-Octene & 1-Hexene
- Melamine
- Formaldehyde
- Ethylene glycol
- Diethylene glycol
- Terephthalic acid
- Isophthalic acid
- Acetaldehyde
- 1,4 Butanadiol
- Phenols
- NOGE
- BFDGE and derivatives
- BADGE and derivatives
- Vinyl Chloride monomer (VCM)
- Phthalates
- Plasticizers
- Isocyanates
- Caprolactam
- Hexamethylenediamine
- Methacrylate
- Vinylacetate
- Acrylonitrile
- Styrene
- Others

## PHYSICAL TESTS

- FTIR Identification
- Workmanship & Finish
- Dye Test
- Wet & Dry Heat Resistance test
- Resistance to low heat
- Staining Test
- Water absorbance test
- Extractable Formaldehyde
- Elongation, Tensile, Dart, Leakage
- Transparency
- Thickness
- Drop Test
- Flexible pouches stack load test
- Dart Impact Resistance
- Potability Test
- Ink Adhesion and Product Resistance for printed material
- Capacity
- Others



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