Regulations In Place To Protect Consumers eg
EU Directive 10/2011 of Jan 14th 2011 on plastics materials and articles intended to come into contact with food.
US Regulations for packaging – Indirect food additives
Code of Federal Regulations CFR: 21

Materials of all types which come into contact with food during processing, transport, storage, packaging, & handling in the home & during cooking.

ICP-MS, ICP-OES
ESI & APCI, LC-UV, LC-MS/MS, LC-HRMS, Library
GC-MS, GC-HRMS, Headspace, EI & CI, Library

Example Of Migration Of Chemicals Into Food & Beverages

Types Of Food Contact Material
- Plastic
- Ceramic
- Glass
- Paper
- Wood
- Metal
- Cork
- Textiles
- Adhesive
- Ink
- Silicone
- Paint

GLOBAL FOOD PACKAGING MARKET: $250 Billion
GLOBAL PACKAGED FOOD RETAIL MARKET $2.5 Trillion

HEAT
Higher temperatures increase leaching

TIME
Long storage time increases leaching

FOOD TYPE
Fatty/acidic foods & liquids have influence on migration

PACKAGING SIZE
Smaller packaging leaches more per volume of food

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