



Flexible Packaging Materials

PERFORMANCE AND FAILURE ANALYSIS OF POLYMERIC PACKAGING MATERIALS

KEY WORDS

FLEXIBLE
PACKAGING,
FAILURE ANALYSIS,
BARRIER
PERFORMANCE

DESCRIPTION

Mechanical and gas barrier properties evaluation of packaging materials under different humidity and temperature conditions
Defects and contamination analysis
Multilayer structures: identification and thickness of each layer in packaging materials and labels
Peeling of aluminum
Evaluation of plasticizers, adhesives and fillers
Migration of additives to surfaces of films and laminates
Study of varnishes and printing inks: identification of components
Resistance to chemical agents
Printing problems and failures
Analysis of components of printing inks and varnishes
Seal strength characterization
Hot melts evaluation
Global and specific migration of additives, elements and heavy metals

APPLICATIONS

Flexible food packaging
Beverage packaging
Pharmaceutical packaging
Cosmetic packaging
Multilayer films
Laminated structures
Printed packaging materials
Shelf-life evaluation
Seal integrity testing
Migration compliance testing
Adhesive performance
Barrier performance testing
Quality control in packaging
Failure diagnosis in laminates
Regulatory compliance assessment

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