

# POLYMER CHARACTERIZATION: ANALYTICAL TECHNIQUES FOR PERFORMANCE & RELIABILITY

## 1. MOLECULAR WEIGHT DETERMINATION

GPC (Gel Permeation Chromatography)  
Mn, Mw, PDI, Distribution

Light Scattering (DLS & SLS)  
High Mw, Aggregation

Osmometry  
Low Mw, Purity

Impacts Strength, Elasticity, Processability

## 2. STRUCTURAL CHARACTERIZATION

NMR (Nuclear Magnetic Resonance)  
Monomer Composition, Tacticity, Branching

FTIR (Fourier Transform Infrared)  
Functional Groups, Impurities, Degradation

XRD (X-Ray Diffraction)  
Crystalline vs. Amorphous, Phase Transitions

Defines Material Behavior & Chemical Architecture

## 3. THERMAL ANALYSIS

DSC (Differential Scanning Calorimetry)  
Tg, Tm, Crystallization

TGA (Thermogravimetric Analysis)  
Thermal Stability, Composition, Decomposition

DMA (Dynamic Mechanical Analysis)  
Viscoelasticity, Modulus, Creep

Determines Temperature Behavior & Stability

## 4. SURFACE & MORPHOLOGICAL ANALYSIS

SEM (Scanning Electron Microscopy)  
Topography, Fracture Surfaces, Coatings

AFM (Atomic Force Microscopy)  
Nanoscale Roughness, Adhesion

Contact Angle  
Wettability, Hydrophobicity, Surface Energy

Explains Surface Topography & Composition

## 5. MECHANICAL PROPERTY ASSESSMENT

Tensile Testing  
Tensile Strength, Modulus, Elongation

Impact Testing  
Toughness, Energy Absorption

Hardness Testing  
Surface Resistance, Quality Control

Assesses Response to Applied Forces

POLYMER MATERIAL

INTEGRATED APPROACH FOR MATERIAL OPTIMIZATION, QUALITY CONTROL, AND LIFECYCLE MANAGEMENT

# Polymer Analysis

**JE Gale**



## **Polymer Analysis:**

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