

# 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

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