

BETTER INSIGHTS FOR BETTER POLYMERS UNDER ONE ROOF

Solutions for Polymers focused on providing more insight into product performance and process optimization

Material Science is becoming increasingly important, new technologies and applications make it easier to meet your daily challenges and regulations in a more cost efficient way. Our comprehensive portfolio of thermal analysis, molecular spectroscopy, chromatography and hyphenated techniques is the ideal choice for ensuring the quality and reliability of polymers.

Glass transition & melting temperatures; crystallinity, heat of fusion, reaction rates, specific heat and heat capacity, curing, safety and stability studies

Differential Scanning Calorimetry



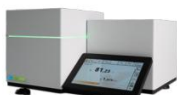
DSC 4000/6000



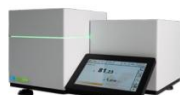
DSC 9

Wt % Additive & bi-product losses, Wt % Fillers & Ash, Decarboxylation, Pyrolyzation, Decomposition and Stability studies

Thermogravimetry



STA 9



TGA 9



TGA 8000

Identify and Quantitate organic molecules and compounds
Understand chemical & physical composition of laminates & adhesives
Troubleshoot chemical origin of occlusions
Identify orientation of molecules

Molecular Spectroscopy FTIR & FT-NIR/Chemical Imaging



Spectrum Two™



Spotlight Aurora

Volatile compounds in packaging material

Gas Chromatography/Mass Spectrometry



GCMS 2400



GC 2400
(with HS 2400 Headspace Sampler)

Modulus, stiffness, damping, crystalline, alpha and beta transitions, glass transition & melting temperatures

Mechanical Analysis



DMA 8000



TMA 4000

Identify and quantitate evolved gases in resins and compounds

Hyphenated Techniques



TL-9000 TG-IR- GC/MS

Identify and quantitate additives

Liquid Chromatography/Mass Spectrometry



LC 300



QSight 400 LC/MS/MS

Reflectance, transmission and absorption measurements for color, HAZE, turbidity, aging, coatings, glass and solar cells

Molecular Spectroscopy UV/Vis & UV/Vis/NIR



LAMBDA 850+ & 1050+



LAMBDA 365



MULTIPLE TECHNIQUES - MULTIPLE EXPERTISE FROM ONE COMPANY

- For performing QA/QC applications
- For studying processes in polymers
- For research & development