



Troy Polymers, Inc.

TESTING SERVICES

PHYSICAL PROPERTIES

- Physical Testing (Instron)
 - Tensile Properties
 - Compression Properties
 - Flexural Properties
 - Hysteresis
 - Tear Strength
 - Peel Resistance
 - Lap Shear Strength
 - Shear Strength
- Compression Set (Dry and Humid)
- Resilience - Bashore and Ball Rebound
- Abrasion (Taber Abrader)
- Tumbling Friability
- Hardness (Shore A, Shore D)
- Pencil Hardness
- Impact Resistance of Coatings
- Open Cell Content in Foams (Pycnometer)
- Viscosity (Brookfield Viscometer)

THERMAL PROPERTIES

- R-Value
- Retention of Stress-Strain Properties with Temperature (Instron with heat chamber)
- Thermal Analyses with DSC
 - Melt Transition Temperature
 - Glass Transition Temperature
- Dynamic Properties with DMA
- Flammability

CHEMICAL ANALYSIS

- Fourier Transform Infrared (FTIR)
- Hydroxyl Value of Polyols
- Acid Value of Polyols
- NCO% of Isocyanates/Pre-Polymers
- Water Content (Karl Fischer Titration)
- Molecular Weight Distribution (GPC)
- Number Average Molecular Weight (Mn) via VPO
- HPLC Analyses

Troy Polymers, Inc. can run custom tests and assist with data interpretation.

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