

NTS SERVICE SPOTLIGHT

MATERIALS TESTING: POLYMER, PLASTICS, RUBBER

ACCREDITED ASSESMENT FOR PERFORMANCE AND APPLICATION

Polymer Materials and Plastics are finding more and more wide-spread applications in a variety of industries. Well beyond traditional fiberglass and plastics, advanced polymer formulations are now being used for both military and commercial applications.

The two main types of plastics are thermoplastics and thermosets. Thermoplastics soften on heating and harden on cooling while thermosets, on heating, flow and crosslink to form rigid material which does not soften on future heating. Thermoplastics account for the majority of commercial usage.

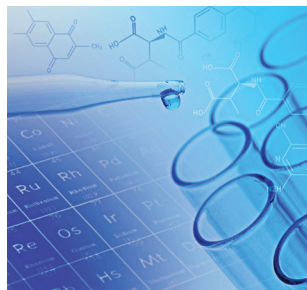
NTS has the capabilities to assess the mechanical strength and integrity of these materials and provide you with the data required to evaluate the performance of the product applications.

Our laboratories are ISO/IEC 17025-certified by the American Association for Laboratory Accreditation and our specialists can quickly turn around projects of any size, even those including complex environmental testing requirements.

The following list includes some of the ASTM, IEC and UL test methods for composites, polymer, plastics, resin compounds and advanced materials.



Combine your test with environmental simulation



We can comply with your most demanding test requirements



Is your product is suitable for its intended application?

TEST CAPABILITIES

- Ball Pressure Test
- Barcol Hardness
- Bond Strength Properties
- Compressive Strength
- Comparative Tracking Index (CTI)
- DC Resistance Insulating Materials
- Deflection Temperature
- Density Determination
- Differential Scanning Calorimetry (DSC)
- Dielectric Breakdown Voltage & Strength
- Dielectric Constant and Dissipation Factor
- Dry Arc Resistance
- Dynamic Mechanical Analysis (DMA)
- Izod Impact
- Flammability
- Flexural Properties
- Fracture Toughness
- Glow-Wire Flammability (Ignitability)
- Heat Aging of Plastics
- High-Voltage, Low Current Dry Arc
- Hot Impact Test
- Wire Ignition (HWI)
- Tensile Properties
- Water Absorption
- Vicat Softening Point

ABOUT NTS

As one of the largest commercial test laboratory networks in North America, NTS offers test, inspection and certification services for environmental, dynamics, EMC, wireless, product safety, materials, ballistics and much more. Our client partners rely on NTS to bring quality products to market quickly and efficiently, and so can you.