The Challenge:
Plastics industry professionals require quick turnaround of polymer property data for a variety of industry applications including the use of polymers in demanding applications, the greening of the industry, and changing regulations to name a few.

Intertek Plastics Technology Laboratories (Intertek PTL) is an independent laboratory dedicated to fast-turnaround of plastics, elastomers, composites & film testing.

- Property evaluations to meet automotive, medical, electronic, aerospace, packaging, military and other industry requirements
- ASTM, ISO, MIL Spec., SAE and customer specific standards, to name a few
- Quality control, lot inspection, failure analysis, identification
- A2LA ISO/IEC 17025:2005 Accreditation to nearly 150 tests
- One test, multiple lot or comprehensive laboratory services to meet customer requirements
Mechanical Testing:
- Tensile, Flexural, Shear, Puncture, Compressive, Tear, Poisson’s Ratio - at low & high temperature
- Impact: Multiaxial (Dynatup), Izod & Charpy, Gardner, Film Drop Tensile Impact
- Physical: Density & Specific Gravity, Rockwell & Shore Hardness
- Friction and Wear: Taber, Falex-type Friction & Wear, Gravelometer Chip Test; sliding sled COF

Analytical Services:
- Ultra-Violet/Visible (UV/VIS) Spectrophotometry
- Thermogravimetric Analysis (TGA)
- Thermomechanical Analysis (TMA)
- Fourier Transform Infrared Analysis (FTIR)
- Differential Scanning Calorimetry (DSC), Filler Identification, Filler Content
- Fiber Content by Acid Digestion
- Moisture Content by Karl Fischer
- Fogging

Electrical Testing:
- Dielectric Strength
- Dielectric Constant, Dissipation Factor
- Volume Resistivity and Surface Resistivity

Flammability Testing:
- ISO 3795 & US 49CFR-571-302 (formerly FVMSS-302)
- ASTM D635
- Oxygen Index ASTM D2863
- UL 94 Series

Thermal Testing:
- Differential Scanning Calorimetry (DSC)
- Heat Deflection Temperature (HDT)
- Dynamic Mechanical Analysis (DMA) in Torsion
- Vicat Softening Point
- Short & Long term Heat Aging and UL Thermal Indexing Programs

Rheological Testing
- Capillary Rheometry
- Melt Flow Index & Intrinsic Viscosity
- Parallel Plate Torque Rheometry
- Die Swell Measurement
- Brookfield Viscosity
- Dilute Solution Viscosity

Weathering/Exposure Program:
- Xenon Arc Test Methods
- QUV Test Methods
- Oven Aging
- Chemical Exposure

Color Testing:
- XYZ and LAB or CIE Tri-Stimulus Color Measurement
- Ultra-Violet and Visible (UV/VIS) light absorption or transmission
- Refractive Index
- Gloss & Haze
- Yellowness Index

Specimen Preparation:
- CNC Machining: from sheet, rod, formed parts
- Compression Molding
- Injection Molding by service: ASTM, ISO, & plaques
- Die-cut for films & elastomers

Testlopedia ™, a free online encyclopedia of testing (www.ptli.com):
- Search by test type
- Determine appropriate scope & sample required for testing
- Understand the basic premise of most common plastics tests
- Watch informative videos of testing in progress
- Develop a path to solve a plastics problem, or answer a technical question

And more…