

## Testing of Plastics, Elastomers, Composites and Film



**Intertek Plastics Technology Laboratories** (Intertek PTL) is an independent laboratory dedicated to plastics, elastomers, composites & film. Intertek PTL provides fast, knowledgeable service and is A2LA ISO/IEC 17025:2005 Accredited to nearly 150 tests. Intertek PTL provides one test, multiple lot or comprehensive laboratory services to meet customer requirements.

### Test Commonly Performed Include:

- Ash Content
- Barcol Hardness
- Blocking
- Brittleness Temperature
- Brookfield Viscosity
- Bulk Density
- Capillary Rheometry – Shear Sweep
- Capillary Rheometry – Thermal Stability
- Carbon Black Content
- Charpy Impact
- Chemical Compatibility
- Coefficient of Friction
- Coefficient of Thermal Expansion
- Cold Bend
- Color Analysis
- Compression Set
- Compression Test
- Deflection Temperature Under Load (HDT)
- Density
- Dielectric Constant/Dissipation Factor
- Dielectric Strength
- Differential Scanning Calorimetry (DSC)
- Dimensional Stability
- Dynamic Mechanical Analysis
- Elmendorf Tear
- Extractions
- Film Impact
- Flammability
- Flexural Test
- Flexural Test At Elevated Temperature
- Flexural Test At Reduced Temperature
- Fogging
- Fourier Transform Infrared Analysis (FTIR)
- Gardner Impact
- Gloss
- Haze
- Inherent Viscosity
- Intrinsic Viscosity
- Izod Impact
- Izod Impact At Reduced Temperature
- Lap Shear
- Melt Flow Index
- Moisture Content By Karl Fischer
- ASTM D5630, ISO 3451, ISO 1172
- ASTM D2583
- ASTM D3354
- ASTM D746
- ASTM D789
- ASTM D1895B
- ASTM D3835, ISO 11443
- ASTM D3835, ISO 11443
- ASTM D1603
- ISO 179
- ASTM D543, D1693, UL
- ASTM D1894
- ASTM E831, D696, ISO 11359
- UL-1581-580
- ASTM D6290, E1347, E308
- ASTM D395
- ASTM D695, ISO 604
- ASTM D648, ISO 75
- ASTM D792, ISO 1183
- ASTM D150, IEC 60250
- ASTM D149, IEC 60243
- ASTM D3417, D3418, ISO 11357
- ASTM D1204
- ASTM D4065, D4440, D5279
- ASTM D1922
- FDA, ASTM
- ASTM D1709
- UL, ASTM, ISO
- ASTM D790, ISO 178
- ASTM D790, ISO 178
- ASTM D790, ISO 178
- SAE J1756, DIN 75201
- ASTM E168, E1252
- ASTM D4226, D5420, D5226
- ASTM D523, D2457
- ASTM D1003
- ASTM D4603
- ASTM D2857
- ASTM D256, ISO 180
- ASTM D256, ISO 180
- ASTM D1002, ASTM D3163
- ASTM D1238, ISO 1133
- ASTM D6869



- Mold Shrinkage
  - Multiaxial Impact
  - Oven Aging
  - Oxygen Index
  - Peel Test
  - Poisson's Ratio
  - Polycarbonate Compatibility
  - Puncture Test
  - QUV
  - Refractive Index
  - Relative Viscosity
  - Rockwell Hardness
  - Shear by Puncture
  - Shore Hardness
  - Short Beam Shear
  - Specific Gravity
  - Specimen Preparation
  - Surface Resistivity
  - Taber Abrasion
  - Tear Resistance
  - Tensile Impact
  - Tensile Test
  - Tensile Test At Elevated Temperature
  - Tensile Test At Reduced Temperature
  - Thermal Oxidative Stability
  - Thermogravimetric Analysis
  - Thrust Washer
  - UL Thermal Indexing
  - UV/VIS Spectrophotometry
  - V-Notch Shear
  - Vicat Softening Point
  - Void Content
  - Volume Resistivity
  - Water Absorption
  - Water Vapor Transmission
  - Xenon-Arc Weathering
  - Yellowness Index
  - and more...
- ASTM D955, ISO 294
  - ASTM D3763, ISO 6603, ISO 7765
  - ASTM, UL
  - ASTM D2863
  - ASTM D903, D1876, D3330, D3167
  - ASTM D638, ISO 527
  - EIA 564-1992
  - FTMS 101C, ASTM F1306
  - ASTM D4329, D4587, ISO 4892, SAE J2020
  - ASTM D542
  - ASTM D2857, D789
  - ASTM D785, ISO 2039
  - ASTM D732
  - ASTM D2240, ISO 868
  - ASTM D2344
  - ASTM D792, ISO 1183
  - ASTM, ISO, other
  - ASTM D257, IEC 60093
  - ASTM D1044, ASTM D4060,
  - ASTM D1004, ISO 34
  - ASTM D1822
  - ASTM D638, D882, D412, D3039, ISO 527
  - ASTM D638, D882, D412, D3039, ISO 527
  - ASTM D638, D882, D412, D3039, ISO 527
  - ASTM D3012
  - ASTM E1131, ISO 11358
  - ASTM D3702
  - UL
  - ASTM D1003
  - ASTM D5379
  - ASTM D1525, ISO 306
  - ASTM D2734, D3171
  - ASTM D257, IEC 60093
  - ASTM D570, ISO 62
  - ASTM E96
  - ASTM D2565, D4459, G155, SAE J1885, J1960
  - ASTM E313

To learn more about tests performed at Intertek PTL, go to [www.ptli.com](http://www.ptli.com) for informative services such as Testlopedia™, a free encyclopedia outlining nearly every test required by the plastics, elastomers, composites and film industry. Contact us today.

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