Your partner in technology

Materials Testing

Mechanical characterization and physico-chemical tests

Physical analysis

- Density
- Mechanical characterization:
 - Tensile, flexure, compression properties
 - Rigidity, sliding, operating stress
 - Charpy impact resistance
- Adhesives: shear, peel resistance (180°) and 90°)
- Textiles: tear resistance
- · Plastics impact resistance (cold and room temperature)
- Drop resistance
- Hardness Shore A and D (plastics and rubbers)
- Persoz hardness (paints)

Electrical cable testing

- · Electrical resistance
- Dielectric rigidity
- · Pressure under high temperature
- · Insulation strip force
- Cold winding
- Cold impact
- Abrasion resistance

Products

- · Laboratory specialised in plastic materials, foams, textiles, paints, adhesives and cables
- Component validation
- · Seat foam characterization (backrest, cushion, headrest)

Aspect

- Aspect assessment:
 - · Visual comparison in colour comparison cabinet
 - · Colour and gloss measurement
- Aspect tests:
 - · Abrasion resistance (Martindale, Mie, Crockmeter, rotary)
 - Stone chip resistance
- Paint adhesion
 - Cross cut. St. Andrew's Cross
- Scratch resistance
- · Resistance to chemicals:
 - · Immersion, drop test, wetting test
- · Resistance to water immersion, saturated atmosphere, temperature

Interior materials

- Emissions:
 - Fogging test
 - Volatility
 - Odour intensity
- Horizontal flammability

Linked areas

- Climatic tests: Performance of tests under climatic conditions to evaluate the possible degradation of properties
- Metrology: Dimensional control before and after the test
- · Fatigue: Fatigue of components for subsequent evaluation of possible degradation of properties
- Plastic product / process: Study of new materials

R&D projects

- NATURPLAS: Development of biodegradable materials for the automobile industry
- · ECOPLAST: New materials for the automobile industry: Validation of plastic materials not derived from petroleum to be used in vehicles
- SMARTCOVER: Development of plastic component with sensor function integrated in smart textile
- · BIODIESEL: Compatibility study of polymers and the biodiesel system
- · NANOCAV: Improvement of the catalytic converters efficiency to reduce emissions
- · CATA ALICANTE: Development of a catalysis system for the elimination of pollutants in diesel vehicles

































