

LABORCONTROL

geosintéticos




ENAC
E N S A Y O S
N° 609/LE1351

Geosynthetics Quality Assurance Control

ENAC Accredited Testing Laboratory with accreditation number 609/LE1351

Laboratory and on site tests

Laborcontrol Geosintéticos



Laborcontrol Geosintéticos is a quality control laboratory exclusively dedicated to geosynthetics.

Since it was founded in 2004, we have taken part in many works throughout the Spanish territory carrying out quality control through works on site and laboratory tests.

Laborcontrol Geosintéticos owns a fully independent testing laboratory that guarantees the objectivity of the results. This makes it possible to offer a high quality service, fast and highly reliable.

All the laboratory and on-site tests are performed according to current standards (UNE, ASTM, EN, DIN, ISO ...) scrupulously following all the applicable normative in the different types of works.



As a result of our work, we are a company accredited by the National Accreditation Body (ENAC) according to the criteria in UNE-EN ISO/IEC 17025:2005 for the performance of laboratory and on-site tests in geosynthetics (accreditation number 609/LE1351).

Services offered

Test Laboratory

..... **Quality Control of Geosynthetic Materials and plastic pipes trough Laboratory Tests.**

- Identification and characterization of materials
- Contrast tests
- Manufacturing quality assurance an manufacturing quality control of geosynthetics (MQA/MQC)



Mobile laboratory for on site tests

..... **Construction quality assurance and construction quality control of geosynthetics materials (CQA/CQC)**

- Destructive testing of thermofusion joints (peel test)
- Non-destructive testing of thermofusion and extrusion joints (waterproofing and sealing using the pressure air method, vacuum test, Spark Test)
- Control of the correct execution of anchors in berms, slopes and ditches
- Monitoring of all the details related to the materials and their installation
- Review of the support base



Technical advice

- **Drafting of Quality Control plans in the project stage.**
- **Technical Assistance in quality control of geosynthetics.**
- **Drawing up of reports with quality assurance certificates.**

These services are especially applicable in different types of works.

Environmental Works

- Landfills, security cells, landfill bodies in general.
- Lining and capping of landfills
- Green walls
- Leachate ponds

Hydraulic works

- Reservoirs and ponds for irrigation and hydraulic infrastructure
- Channels and irrigation ditches
- Ornamental ponds
- Treatment plants lagoons
- Pipe networks

Civil Works

- Roads
- Railways
- Tunnels
- Slopes



Types of tests

Physical

Density
Thickness
Melt flow rate
Foldability at low temperature
Heat behaviour
Water absorption
Mass per unit area
Width
Shore D hardness, IRHD
Characteristic opening size
Bentonite content
Montmorillonite content
Dry and wet direct shear



Hydraulic

Water permeability
Swell Index
Water flow capacity
Permeability in clay barriers
Internal pressure resistance

On-site

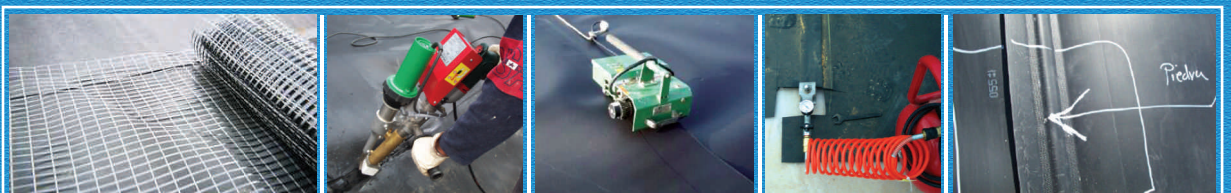
Waterproofing and sealing of overlaps and joints using the pressure air method
Vacuum test
Spark test
Peel test

Mechanical

Tensile strength
Elongation at break
Tensile yield strength
Elongation yield strength
Static puncture resistance (CBR)
Tear strength
Peel resistance
Dynamic perforation resistance by cone drop
Compressive strength

Durability and chemical resistance

Carbon black content
Carbon black dispersion
Oxidation induction time
Stress crack resistance using notched constant tensile load test (NCTL)
Thermic aging
Root penetration resistance
Resistance to weathering
Resistance to microorganisms
Raw material identification (DSC)
Resistance to acid and alkaline elements



Types of geosynthetic materials

Geomembranes

(polyethylene films, PVC, EPDM, Polypropylene, Rubber,...)

Geotextiles

(woven, non-woven, Polyester, Polypropylene, Polyethylene ...)

Related Products

(geogrids, geomats, geocells, geonets)

Geocomposites

(drainage, bentonite,...)

Plastic pipes

(PE, PVC,...)



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Polígono Mercalicante
Ctra. Madrid, Km. 4,
Pabellón Central, Planta 1ª
03007 Alicante (ESPAÑA)

Teléfonos **+34 966 080 792 - +34 965 113 647**

Fax: **+34 966 308 242** E-Mail: administracion@laborcontrol.es

www.laborcontrol.es