



Technology Partner for the Plastic and Material Industry

NORNER is a specialised, fully independent innovation and technology partner. We continue a success story that started 30 years ago as a world leading plastics R&D centre.

NORNER provide technology projects and support to the industry and will follow the long traditions of the R&D centre in Norway to be an important partner for the whole plastic value chain.

From gas conversion to polymer modification and polymerisation, additives for polymers to the extrusion and end use of plastics, NORNER will strive to make a difference for the industry.

NORNER has a comprehensive scientific lab for an independent company of our kind. Our competence and equipment covers a wide range of key technologies in the polymer and materials industry, which makes us capable of an intimate cooperation with companies in different levels of the value chain.

Our advanced metallurgy investigation and failure analysis adds value to our customers.

The expertise that Norner offer to the industries of polymers and plastics also cover various end-use requirements and how these are influenced by the choice of products and processing conditions.

In order to illustrate our service offering we present an overview of our laboratories and world class capabilities on next page.

Some NORNER activities are:

- Gas conversion and polymerisation
- Catalyst evaluation and verification
- Material evaluation and analysis
- Material specification and selection
- Product development
- Packaging development
- Process optimisation
- REACH directive expertise
- Food contact regulations
- Additive recipe development
- Additive performance testing
- Analytical services
- Seminars and training
- Material failure analysis
- IPR strategy and assistance

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Analytical laboratory

Key services are:

- Mechanical, physical and thermal properties.
- Weathering tests for durability studies.
- Determination of environmental and chemical resistance.
- Tailor-made application testing.
- Advanced molecular structure characterization and identification.
- Identification of unknown product/components.
- Analysis of volatiles, emissions and migration.
- Expertise in problem solving and troubleshooting.
- Unique competence and equipment in light and electron microscope.
- Product failure analysis.
- Barrier properties.
- Close cooperation with institutes and universities.
- Method development on customers demand.
- Project management.
- International test standards.

Machinery laboratory

Our machinery lab contains high quality, industrial sized machines to make products and test specimens.

BLOW MOULDING

Three BM machines including one Fischer-Müller. 8 moulds of different design.

INJECTION MOULDING

Five IM machines from Engel, Demag, Netstal and Arburg. 25 moulds of different design for applications and ISO specimens.

ROTATIONAL MOULDING

Highly equipped Rotospeed shuttle machine with biaxial rotation and several moulds.

BLOWN FILM EXTRUSION and ORIENTATION

Blown film: W&H 3-layer co-extrusion, Hosokawa Alpine mono, Dr. Collin small scale line
Hosokawa Alpine MDO, Machine direction orientation line

COMPOUNDING

Several compounding lines for product development, polymer and additive modification.

GAS CONVERSION LAB

Lab reactors for studies of polymerisation and other gas reactions.

Bench scale reactors and pilots with wide temperature and pressure range that can utilise any catalyst and alpha olefin. Highly flexible in operation modes.

Polymerisation in slurry, solution, bulk and gas phase.

Autoclaves for exposure at high pressure and temperature. Equipment for catalyst heterogenisation.

