



INEOS

Olefins & Polymers Europe


Your partner in

ELTEX[®]

SUPERSTRESS[®]

Leading the
PE100-RC market

INEOS

A photograph showing several large, grey, flexible pipes laid out on a construction site. The pipes are arranged in a line, receding into the distance. Each pipe has a thin blue line running along its length. The background shows trees, a concrete curb, and some construction equipment. The lighting is bright, suggesting a sunny day.

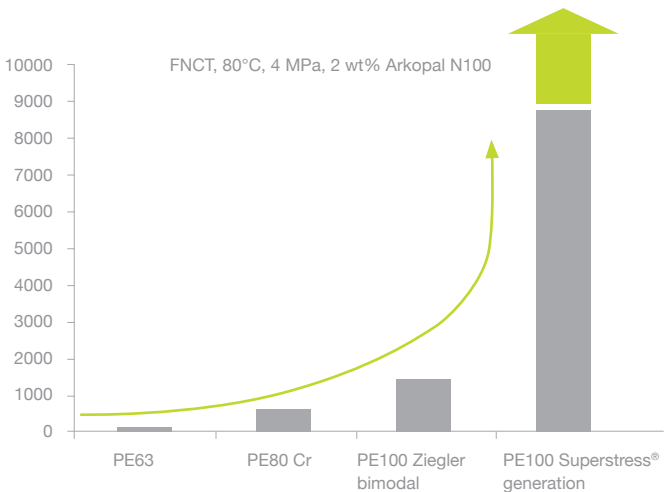
The most advanced
performance for easy
to lay pipe installation

INEOS Olefins & Polymers Europe

ELTEX® Superstress® HDPE Compounds

We provide added value solutions that raise technical performance of pipe systems and improve cost competitiveness by reducing installation through the development of HDPE material that exhibits high slow crack growth resistance.

As an experienced and leading player in the supply of polyolefins to the pipe industry, INEOS Olefins & Polymers has developed an invaluable and unique awareness to meet customer needs and to deliver advanced bimodal product design and process manufacturing technology for advanced HDPE.



Slow Crack Growth Resistance of ELTEX® Superstress® resins exceed several years under FNCT (80°C, 4 MPa, 2 wt% Arkopal N100) exhibiting outstanding resistance against overall slow crack growth mechanism.

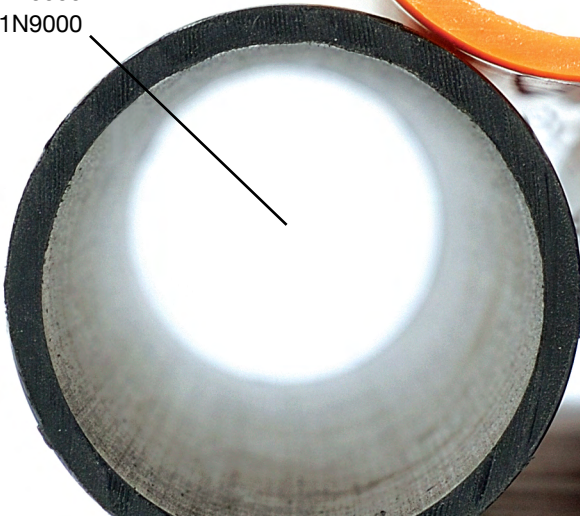
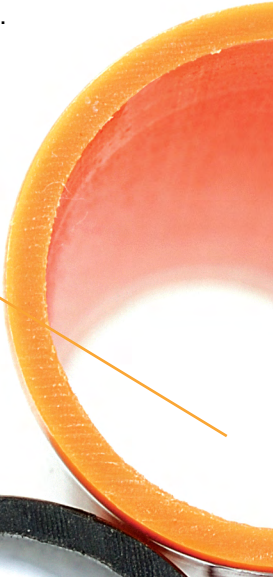
Once again, INEOS O&P Europe is at the forefront of polyolefin development, setting the standards in offering innovative products to its key markets.

The emerging and growing market demands of pipe system installers and utility companies for easy-to-lay solutions have raised the need for advanced PE materials with outstandingly high slow crack growth resistance.

These include new installation techniques associated with difficult handling conditions such as old pipe relining, system rehabilitation or sand-less bedding which will affect material intrinsic slow crack growth resistance and hinder the long-term performance of the pipe system.

ELTEX®
TUB 125N6000

ELTEX®
TUB 121N6000
TUB 121N9000



ELTEX® Superstress® Solutions for most demanding Applications



ELTEX®
TUB 124N6000

Certified Performance by continuous Quality Controls

To ensure that users of Superstress[®] resins enjoy consistent product quality, regular checks and monitoring are carried out at INEOS Olefins & Polymers Europe manufacturing sites and external laboratories.

Slow Crack Growth Resistance of our ELTEX[®] Superstress[®] compounds is certified above 8760 h according to FNCT, 80°C, 4 MPa, 2 wt% Arkopal N100 per batch produced.

This unique market offer of combining outstanding material properties with certified performance will provide enhanced long-term reliability for pipes systems made from ELTEX[®] Superstress[®] products even under the most demanding installation conditions.

PE100-RC		Density kg/m ³	MI5 g/10 min
ELTEX [®] Superstress [®] TUB121N6000	Black PE100 compound with step-out stress cracking resistance	959	0.3
ELTEX [®] Superstress [®] TUB121N9000	Black PE100 compound with step-out stress cracking resistance, low sagging for large diameter / thick pipes	959	0.24
ELTEX [®] Superstress [®] TUB124N6000	Blue PE100 compound with step-out stress cracking resistance	953	0.3
ELTEX [®] Superstress [®] TUB125N6000	Orange PE100 compound with step-out stress cracking resistance	952	0.3

In conditions where the bedding consists of the re-use of the material dug as backfill INEOS ELTEX[®] Superstress[®] product adheres to German PAS 1075 (Public Available Specification). This covers the technical recommendations applied to the raw material and pipe systems used with sandless bedding.

ELTEX® Superstress® Green Solution for Pipe Systems

Current European market trend for more environmental friendly solutions in pipe systems and continuous enhancement of European standards in environment protection raised the local authorities and general public expectations in the environment field.

Besides the obvious economical advantages associated with Eltex® Superstress® use with easy-to-lay techniques, the environmental balance and impact is reduced compared to conventional techniques.

Environmental impact of PE pipe systems in non-conventional techniques is definitively reduced through the overall benefits generated by easy to lay installation step (trenchless, no dig, sandless...).

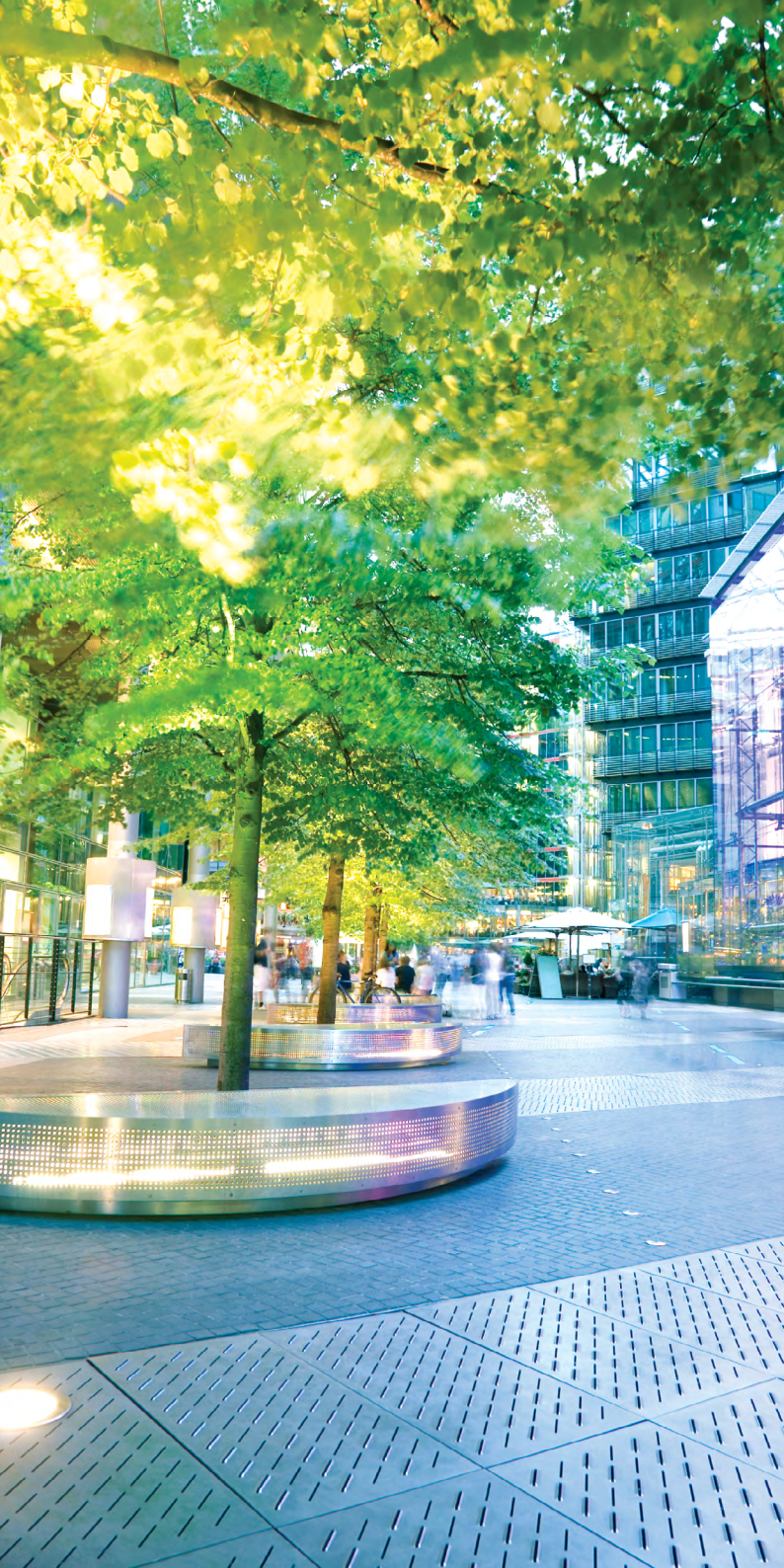


The environmental impact reduction is reached through faster time with fewer energy consumption and discharge, minimum ground space occupation and excavated ground, limited landscape modification and underground impact.

New HDPE Generation ELTEX®

To produce HDPE resins which perform beyond the usual creep – slow crack growth relation, an exclusive polymer molecular design was tailor-made. It consists of an optimal balance between polymer chains entanglement and crystallinity.







About us

INEOS is one of the world's largest chemical companies, founded in 1998. INEOS Olefins & Polymers Europe is a leading producer of olefins and polyolefins.

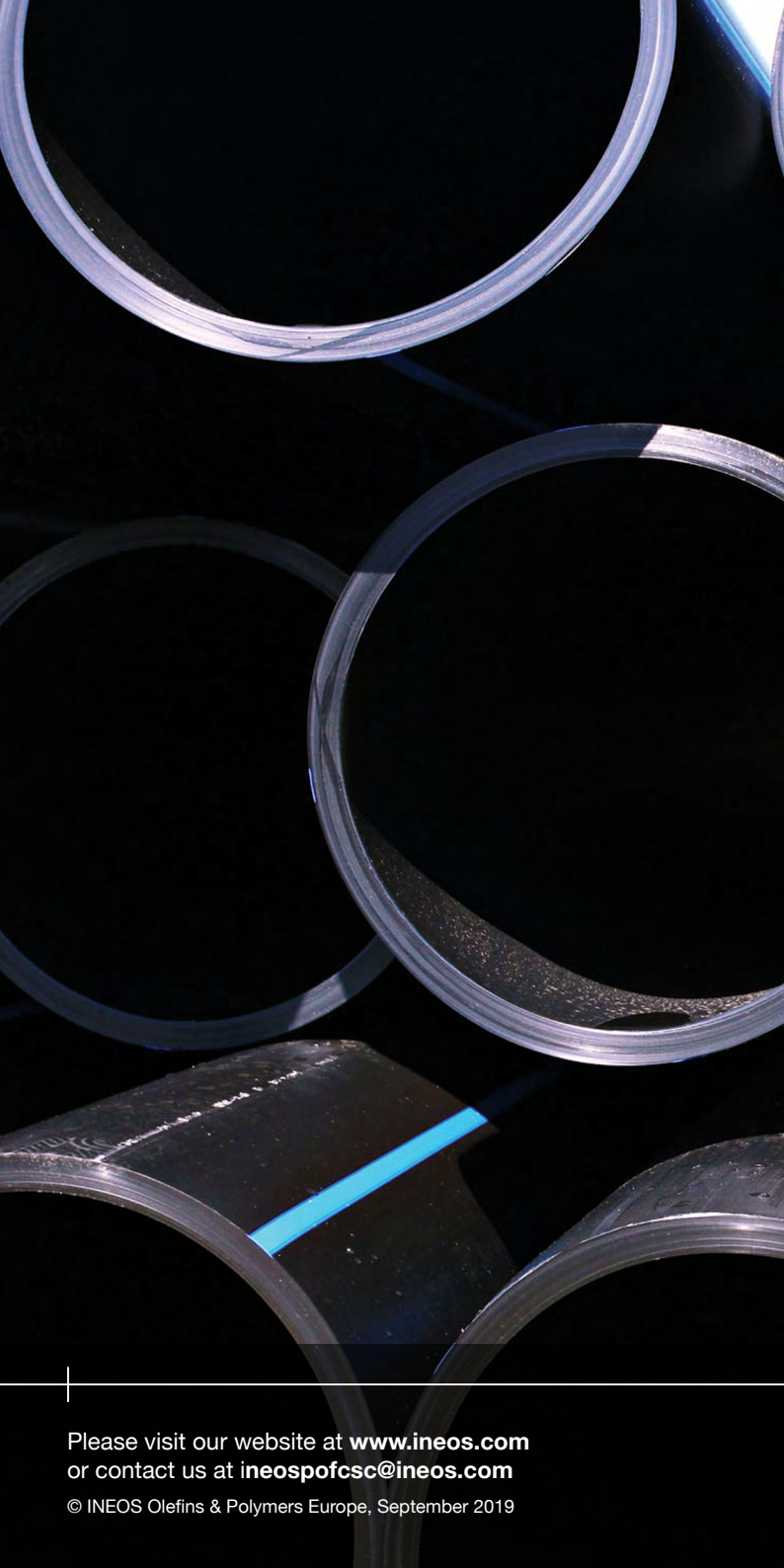
INEOS Olefins & Polymers Europe offers a full range of high value polyolefins solutions for market applications such as food and industrial packaging, pipe and automotive through dedicated sales, and technical service teams.

INEOS is a safe and environmentally responsible company. We are engaged in developing our sustainable agenda to improve our operations and to implement sustainable solutions for our customers. This includes products that offer lightweighting, energy efficiency, durability (extended lifetime) or conservation of resources. We care.



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