

# INEOS

## Olefins & Polymers Europe

Your partner with

# ELTEX<sup>®</sup> SUPERSTRESS<sup>®</sup>

The most **advanced**  
performance for easy  
to lay pipe installation.

[www.ineospolyolefins.com](http://www.ineospolyolefins.com)

## 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.



FULL PROPERTIES OF PE100

CONTINUED  
PERFORMANCE CONTROL

MARKET KNOW-HOW

INNOVATIVE, SAFE,  
PROVEN SOLUTIONS

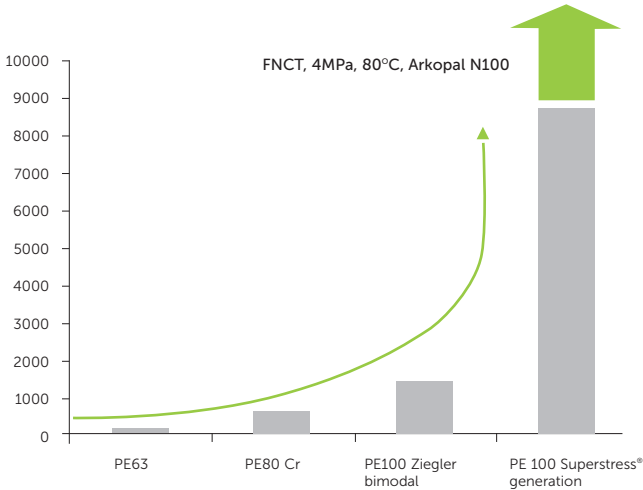
UNPRECEDENTED  
ESCR FOR DEMANDING  
APPLICATIONS

LEADING TECHNOLOGY  
BIMODAL PROCESS CATALYST

## 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, 4MPa) 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.



*Courtesy by Egeplast*

**ELTEX® Superstress®**  
Solutions for most demanding applications



ELTEX®  
TUB 125N6000

ELTEX®  
TUB 121N6000

ELTEX®  
TUB 124N6000

## Certified Performance By continuous quality control

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, 4MPa 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 <sup>3</sup>	MI5 g/10 min
■ ELTEX® Superstress® TUB121N6000	<i>Black PE100 compound with step-out stress cracking resistance</i>	959	0.30
■ ELTEX® Superstress® TUB124N6000	<i>Blue PE100 compound with step-out stress cracking resistance</i>	953	0.30
■ ELTEX® Superstress® TUB125N6000	<i>Orange PE100 compound with step-out stress cracking resistance</i>	952	0.30

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.

INEOS is one of the world's largest chemical companies. Founded in 1998, the company employs 15,000 people and has turnover of around 47 billion US Dollars.

[www.ineos.com](http://www.ineos.com)

INEOS Olefins & Polymers Europe is a business leading European producer of olefins and polyolefins.

[www.ineospolyolefins.com](http://www.ineospolyolefins.com)

**INEOS Olefins & Polymers Europe** offers a full range of highly valued polyolefins solutions for selected market applications including pressure pipes & fittings, sewage and drainage pipes as well as hot & cold duty. Our dedicated sales, marketing and technical teams focus on each market segment delivering excellent customer service.

Based on a thorough understanding and in-depth knowledge of the pipe market requirements, INEOS Olefins & Polymers has developed the latest generation of PE100 materials namely ELTEX® Superstress®, that meets pipe manufacturers' expectations for safe and advanced polyolefin solutions. For Technical Data Sheets, Safety Data Sheets and Product Liability Statements visit us at [www.ineospolyolefins.com](http://www.ineospolyolefins.com)

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