# ELTEX® TUB120NRG

## Product Technical Information

**ELTEX® TUB120NRG** is a natural high-density polyethylene copolymer, produced by INEOS Innovene-S process, with increased resistance to temperature and designed for the extrusion of a broad range of pipe dimensions, including large diameter and/or high wall thickness.

## Benefits & Features

**ELTEX® TUB120NRG** fulfils the MRS 10 (PE 100) classification in accordance with ISO 12162 as well as PE-RT Type II classification according to ISO 24033, both based on ISO 9080 analysis.

This natural product provides a step-out performance of increased stress cracking resistance and is designed to allow maximum safety under all installation conditions and reduction of installation costs using, for examples, no dig trenchless techniques, sandless laying or other non-conventional installation techniques that may increase the risk of scratches along the pipes.

## Applications

- Industrial pressure and non-pressure pipes
- Oil & Gas pipes
- Ducting of High Voltage cables
- Extruded sheets

| Properties | Conditions | Test Methods | Values | Units |
|---|---|---|---|---|
| **Rheological** | | | | |
| Melt Flow Rate | 190°C/5kg | ISO 1133-1 | 0.27 | g/10min |
| **Physical** | | | | |
| Density | 23°C | ISO 17855-2 & ISO 1183-1 (A) | 949 | kg/m³ |
| **Mechanical** | | | | |
| Flexural Modulus | 23°C | ISO 178 | 1100 | MPa |
| Tensile Strength at Yield | 23°C, 50 mm/min | ISO 527-2 | 25 | MPa |
| Rapid Crack Propagation | 0°C, 250 SDR11 pipes | ISO 13477 | ≥ 10 | bar |
| Strain Hardening Modulus | 80°C | ISO 18488 | ≥ 70 | MPa |
| **Thermal** | | | | |
| Oxidation Induction Time (OIT) | 210°C | ISO 11357-6 | >20 | Min |

**Data should not be used for specification work**

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## Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration.
It is advised to process the product within maximum one year after delivery.

**Regulatory Information**
The product and uses described herein may be subject to specific requirements or limitations for use in certain applications like food contact, drinking water or medical devices. Further information may be obtained from the website www.ineos.com where a specific Regulatory Certificate is available for each grade under the heading "SDS & Regulatory Certificate".

Unless specifically indicated, the product mentioned herein is not suitable for applications in the medical or pharmaceutical sectors.

**Health and Safety Information**
The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Safety Data Sheet (SDS) that may be obtained from the website www.ineos.com. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

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