Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

ELTEX® SUPERSTRESS™ TUB125N6000

Product Technical Information

ELTEX® SUPERSTRESS™ TUB125N6000 is a high-density polyethylene copolymer designed for the extrusion of pressure pipes. It is classified PE100-RC in accordance with ISO 12162 based on ISO 9080 analysis.
This PE100-RC compound providing a step-out performance of increased stress cracking resistance, is designed to allow maximum safety under all installation conditions and reduction of installation costs using no dig trenchless techniques or sandless laying.

Characteristics

Orange PE100-RC **(RAL 1033)** pipe compound displaying

- Outstanding resistance to stress cracking
- Very good processability – ideal for thin layer coextrusion

Applications

- Gas
- Relining technologies
- Coextruded pipes

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/5 kg	ISO 1133-1	0.3	g/10min
Physical				
Density	pigmented, 23°C, conditioning ISO 17855-1	ISO 1183-1	952	kg/m³
Thermal				
Oxidation Induction Time (OIT)	210°C	ISO 11357-6	>20	min
Pigmentation				
Pigment Dispersion		ISO 18553	<3	Grade
Mechanical				
Tensile Strength at Yield	23°C, 50 mm/min	ISO 527-2	25	MPa
Tensile Strain at Break	23°C, 50 mm/min	ISO 527-2	>350	%
Tensile Modulus	23°C, 1 mm/min	ISO 527-2	1100	MPa
Notch Pipe Test	80°C, 9.2 bar	ISO 13479	>1	year
Point loading test	80°C, Arkopal N100, 4N/mm2	Hessel test method	>1	year
Environmental stress cracking resistance (FNCT)	80°C, Arkopal N100, 4N/mm2	ISO 16770	>1	year
Vicat Softening Temperature	Under 1kg	ISO 306	128	°C

Data should not be used for specification work

March, 2025

Published by

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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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March, 2025

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