

ELTEX[®] Superstress[™] TUB121N6000

Product Technical Information

ELTEX[®] Superstress[™] TUB121N6000 is a high-density polyethylene copolymer designed for the extrusion of pressure pipes.

It is characterized as PE 100 Black pipe compound

Benefits & Features

ELTEX[®] Superstress[™] TUB121N6000 is classified PE 100 in accordance with ISO 12162 based on ISO 9080 analysis.

This PE 100 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..

Applications

- Gas
- Water
- Industrial

| Properties | Conditions | Test Methods | Values | Units |
|---|--|--------------------|----------|-------------------|
| Rheological | | | | |
| Melt Flow Rate | 190°C/5 kg | ISO 1133-1 | 0.3 | g/10min |
| Physical | | | | |
| Density ISO 1872-1 | 23°C | ISO 1183-1 | 959 | kg/m ³ |
| Mechanical | | | | |
| Tensile Strength at Yield | 23°C | 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 |
| FNCT | 80°C, 2% Arkopal N100, 4 N/mm ² | ISO 16770 | >1 | year |
| Point Loading Test | 80°C, 2% Arkopal N100, 4 N/mm ² | Hessel test method | >1 | year |
| Thermal | | | | |
| Vicat Softening Temperature | 10N | ISO306/A50 | 128 | °C |
| Oxidation Induction Time (OIT) | 210°C | ISO 11357-6 | >20 | min |
| Pigmentation | | | | |
| Carbon Black Dispersion | | ISO18553 | <3 | Grade |
| Carbon Black Content | | ISO6964 | 2 to 2.5 | % |
| 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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