



ELTEX® TUB121 NRG

Product Technical Information

ELTEX® TUB121 NRG is a high-density polyethylene black copolymer designed for the extrusion of pressure and non-pressure pipes.

Benefits & Features

ELTEX® TUB 121 NRG is classified MRS 10 (PE 100) in accordance with ISO 12162 based on ISO 9080 analysis and provides a step-out performance of increased stress cracking resistance

ELTEX® TUB 121 NRG provides an improved thermo-oxidative ageing resistance in comparison with standard PE100 materials

Applications

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

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/5kg	ISO 1133-1	0.24	g/10min
Physical				
Density ISO 17855-1	23°C	ISO 1183-1	959	kg/m ³
Mechanical				
Flexural Modulus	23°C	ISO 178	1100	MPa
Tensile Strength at Yield	23°C, 50 mm/min	ISO 527-2	25	MPa
Strain Hardening Modulus	80°C	ISO 18488	>55	MPa
Thermal				
Oxidation Induction Time (OIT)	210°C	ISO 11357-6	>20	Min
Pigmentation				
Carbon Black Dispersion		ISO 18553	<3	Grade
Carbon Black Content		ISO 6964	2 to 2.5	%
Data should not be used for specification work				

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.