Eltex® Superstress™ TUB121N6000

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

Message:

Eltex® Superstress™ TUB121N6000 is a high-density polyethylene copolymer designed for the extrusion of pressure pipes. It is classified PE 100 in accordance with ISO 12162 based on ISO 9080 analysis.
This PE100 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

General Information			
Additive	Carbon black (2%)		
Features	High ESCR (Stress Cracking Resistance) Copolymer		
Uses	Industrial application Piping system		
Agency Ratings	ISO 12162 PE 100		
Appearance	Black		
Processing Method	Pipeline extrusion molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.959	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.30	g/10 min	ISO 1133
Carbon Black Dispersion			ISO 18553
FNCT [1] (80°C)	> 1	yr	ISO 16770
Carbon Black Content	2.0 - 2.5	%	ISO 6964
Notch Pipe Test [2] (80°C)	> 1	yr	ISO 13479
Point Loading Test [3] (80°C)	> 1	yr	
Oxidation Induction Time (210°C)	> 20	min	ISO 10837
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	1100	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	25.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	> 350	%	ISO 527-2/50
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	128	°C	ISO 306/A
NOTE			
1.	Arkopal N100, 4 N/mm²		
2.	9.2 bar		
3.	Arkopal N100, 4 N/mm²		

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