

## Ineos TUB 121 HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

### Material Notes:

TUB 121 (aka ELTEX® TUB 121, ELTEX® TUB 121 N2025, and ELTEX® TUB 121 N3000) is a black high density bimodal polyethylene copolymer designed for extrusion of potable water, natural gas, industrial, and mining pipe. It has NSF Standard 14 certification and complies with ANSI/NSF Standard 61 health effects requirements. TUB 121 is recognized by the Plastic Pipe Institute as having a pipe material designation code of PE 4710 and PE 100.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-TUB-121-HDPE.php](http://www.lookpolymers.com/polymer_ineos-TUB-121-HDPE.php)

Physical Properties	Metric	English	Comments
Density	0.9485 g/cc	0.03427 lb/in <sup>3</sup>	Natural; ASTM D4883
	0.959 g/cc	0.0346 lb/in <sup>3</sup>	Black; ASTM D4883
Environmental Stress Crack Resistance	>= 5000 hour	>= 5000 hour	Condition C; ASTM D1693
Carbon Black Loading	2.3 %	2.3 %	ASTM D1603
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
PENT	>= 10000 hour	>= 10000 hour	Notched Tensile; ASTM F1473
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength at Break	37.9 MPa	5500 psi	2 in/min; ASTM D638
Tensile Strength, Yield	24.99 MPa	3625 psi	2 in/min; ASTM D638
Elongation at Break	>= 600 %	>= 600 %	2 in/min; ASTM D638
Flexural Modulus	1.03 GPa	150 ksi	2% Secant-Method 1; ASTM D790
Izod Impact, Notched	4.81 J/cm	9.00 ft-lb/in	ASTM D256
Hydrostatic Design Basis	6.89 MPa	1000 psi	at 60°C; ASTM D2837
	11.0 MPa @Temperature 23.0 °C	1600 psi @Temperature 73.4 °F	ASTM D2837

Thermal Properties	Metric	English	Comments
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Vicat Softening Point Thermal Properties	126 Å°C Metric	259 Å°F English	ASTM D1525 Comments
Brittleness Temperature	<= -118 Å°C	<= -180 Å°F	ASTM D746
Decomposition Temperature	>= 220 Å°C	>= 428 Å°F	Thermal Stability; ASTM D2513/D3350

Descriptive Properties	Value	Comments
Cell Classification	445574C	
Process	Pipe Extrusion	

## Contact Songhan Plastic Technology Co.,Ltd.

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