INEOS HDPE TUB 121N

High Density Polyethylene Copolymer INEOS Olefins & Polymers USA

Message:

TUB 121N is a natural bimodal high density polyethylene copolymer designed for extrusion of potable water, natural gas, industrial and mining pipe. When blended with an approved black concentrate, the resulting formulation ("TUB 121") is listed by the Plastics Pipe Institute (PPI TR-4, as both PE 4710 and PE 100) and is certified to ANSI/NSF Standard 14, CSA B137.1 and CSA B137.4.

General Information			
Features	Copolymer		
	High Density		
Uses	Industrial Applications		
	Mining Applications		
	Natural Gas Distribution		
	Piping		
	Potable Water Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	Contact Manufacturer		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	8.5	g/10 min	
190°C/5.0 kg	0.30	g/10 min	
Environmental Stress-Cracking Resistance (100% Igepal, F50)	> 5000	hr	ASTM D1693C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	24.1	MPa	
Break	30.3	MPa	
Tensile Elongation ²			ASTM D638
Yield	10	%	
Break	> 600	%	
Flexural Modulus - 2% Secant	896	MPa	ASTM D790A
Hydrostatic Design Basis			ASTM D2837

23°C	11.0	MPa	
60°C	6.89	MPa	
Oxidation Induction Time (210°C)	> 20	min	ASTM D3895
Thermal Stability	> 240	°C	ASTM D3350
Cell Classification	445574C		ASTM D3350
Minimum Required Strength	10.0	MPa	ISO 9080
PENT - Notch Tensile	> 10000	hr	ASTM F1473
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	640	J/m	ASTM D256
Notched Izod Impact (Area)	63.0	kJ/m²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
brittleness remperature	< -118	°C	ASTM D746
Vicat Softening Temperature	< -118 126	°C	ASTM D746 ASTM D1525
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Vicat Softening Temperature			

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