

TUB121B

POLYETHYLENE COPOLYMER

TECHNICAL DATASHEET

Product Description

TUB121B is a black HDPE compound designed for extruded pipe and fittings used in potable water, natural gas, industrial and mining applications. It is listed in PPI TR-4 as both PE 4710 and PE100 and is certified to NSF/ANSI Standard 14, CSA B137.1 and CSA B137.4.

Typical Properties¹

Property	English Units	SI Units	ASTM Method
Resin			
Density (Natural)		0.949 g/cc	D4883
Density (Black)		0.959 g/cc	D792
Melt Index (190°C/5.0 kg)		0.30 g/10 min	D1238
Melt Index (190°C/21.6 kg)		8.5 g/10 min	D1238
Compression Molded Specimens			
Tensile Strength @ Yield	3,600 psi	24.8 MPa	D638
Tensile Elongation @ Break	>600 %	>600 %	D638
Flexural Modulus, 2% Secant Method	130,000 psi	900 MPa	D790A
Brittleness Temperature	<-180 °F	<-118 °C	D746
Notch Tensile (PENT)	>10,000 hrs	>10,000 hrs	F1473
Cell Classification	445574C	445574C	D3350
Pipe			
Hydrostatic Design Basis (HDB) @ 23°C @ 60°C	1,600 psi 1,000 psi	11 MPa 6.9 MPa	D2837
Minimum Required Strength (MRS)	---	10 MPa	ISO 9080
Oxidative Resistance Classification	CC3	CC3	D3350

¹ Typical properties will vary and are not to be used for specifications.

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at www.ineos-op.com, or call + 1-800-527-5419.

Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Safety Data Sheet (SDS) contains the available product health and safety information for this material and can be found at www.ineos-op.com. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

The Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the SDS of the original material should not be used.

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