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Nupi 100 PE4710 / (3408/3608) Pipe Data Sheet

Typical Material Physical Properties of Nupi 100 PE4710 / (3408/3608)

High Density Polyethylene Materials

Property	Unit	Test Procedure	Typical Value
Material Designation	---	PPI TR-4	PE4710 / PE100
Cell Classification	---	ASTM D3350	445474
Pipe Properties			
Density	gms / cm ³	ASTM D1505	0.969 (black)
Melt Index Condition 190C / 21.6kg	gms / 10 minutes	ASTM D1238	7.5
Hydrostatic Design Basis 73°F (23°C)	psi	ASTM D2837	1600
Hydrostatic Design Basis 140°F (60°C)	psi	ASTM D2837	1000
Resistance to Rapid Crack Propagation (RCP), S4 Critical Pressure, 0°C	psi	ISO 13477	>12 bar (> 174 psi)
Minimum Required Strength (MRS)	Mpa	ISO 9080	10
Pipe Test Category	---	D2239	C3
Notched Pipe Test	hrs	ISO 13479	>500
Mechanical Properties			
Flexural Modulus @ 2% Strain	psi	ASTM D790	150,000
Tensile Strength at Yield	psi	ASTM D638 Type IV 2" / min	>3500
Elongation @ Break	%	ASTM D638 Type IV 2" / min	>800
PENT	hrs	F1473	>5000
Notched Izod Impact Strength	ft-lb/in	D256, 1/8" specimen	8
Thermal Properties			
Vicat Softening Temperature	°F	ASTM D1525	255
Brittleness Temperature	°F	ASTM D746	-180
Thermal Expansion	in / in / °F	ASTM D696	0.0001

Nupi 100 is manufactured in accordance with all applicable ISO and ASTM Standards. Nupi 100 meets or exceeds the specifications of ASTM D2513, F714 and D3035.

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Before using the piping product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the piping product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the piping product is suited and the information is applicable to the user's specific application. This data sheet provides typical physical property information for polyethylene resins used to manufacture the piping product. It is intended for comparing polyethylene piping resins. It is not a product specification, and it does not establish minimum or maximum values or manufacturing tolerances for resins or for the piping product. These typical physical property values were determined using compression-molded plaques prepared from resin. Values obtained from tests of specimens taken from the piping product can vary from these typical values. Nupi Americas does not make, and expressly disclaims, all warranties, of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, allegedly arising from any usage of trade or from any course of dealing in connection with the use of information contained herein or the piping product itself. The user expressly assumes all risk and liabilities.

