HIGH DENSITY POLYETHYLENE PIPE Typical Physical Properties***

Property Material Designation Material Classification Cell Classification -Density (3) -Melt Index (4) -Flex Modulus (5) -Tensile Strength (4) PENT (6) -HDB @73; F (4) -HDB @ 140 Deg F -U-V Stabilizer (C)	Specification PPI / ASTM ASTM D-1248 ASTM D3350-99 ASTM D-1505 ASTM D-1238 (216 kg/190¡C) ASTM D-790 ASTM D-638 ASTM F-1473 ASTM D-2837 ASTM D-2837 ASTM D-1603	gm/cm3 gm/10 min. psi psi Hours psi psi psi	Nominal Value PE 3408 III C 5 P34 345464C 0.955 0.11* 135,000 3,200 >100 1,600 800 2.5
Hardness Compressive Strength (yield) Tensile Strength @ Yield (Type IV Spec.) Elongation @ Yield Tensile Strength @ Break (Type IV Spec.) Elongation @ Break Modulus of Elasticity	ASTM D-2240 ASTM D-695 ASTM D-638 (2"/min.) ASTM D-638 ASTM D-638 ASTM D-638 ASTM D-638	Shore "D" psi psi %, minimum psi %, minimum psi	65 1,600 3,200 8 5,000 750 130,000
PENT (6) (Cond. A, B, C: Mold. Slab) (Compressed Ring - pipe) Slow Crack Growth Impact Strength (IZOD) (.125Ó Thick) Linear Thermal Expansion Coef. Thermal Conductivity Brittleness Temp. Vicat Soft. Temp. Heat Fusion Cond.	ASTM F-1473 ASTM D-1693 ASTM F-1248 Battelle Method ASTM D-256 (Method A) ASTM D-696 ASTM D-177 ASTM D-746 ASTM D-1525 ASTM D-1525	Hours Fo, Hours Fo, Hours Days to Failure In-lb / in notch in / in/¡F BTU-in/ft2/ hrs/ degreesF degrees F degrees F @ psi degrees F	>100 >5,000 >3,500 >64 42 1.2x10-4 2.7 <-180 257 75 @ 400

^{***} This list of typical physical properties is intended for basic characterization of the material and does not represent specific determinations of specifications. The physical properties values reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D 1928 and may differ from specimens taken from pipe.

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^{**} Tests were discontinued because no failures and no indication of stress crackinitiation.

^{*} Average Melt Index value with a standard deviation of 0.01