

WL106A PE3608 PIPE COMPOUND



Typical Physical Properties for WL Plastics PE3608 Pipe Compound

- WL Plastics HDPE PE3608 pipe is manufactured from pressure rated polyethylene compound that meets or exceeds ASTM D 3350 requirements and Cell Classification PE345464C and meets or exceeds material designation codes PE3608 and PE3408.
- WL Plastics HDPE PE3608 polyethylene pipe materials are listed by PPI in TR-4 with HDB ratings of 1600 psi at 73°F and 800 psi at 140°F, and HDS ratings for water of 800 psi at 73°F and 400 psi at 140°F.
- For potable water service, WL Plastics HDPE PE3608 black polyethylene compounds are certified to NSF-61.

Physical Property	Test Method	Typical Value ¹
Cell Classification (black compound)	ASTM D3350	PE345464C
Melt Index (190/2.16)	ASTM. D1238	0.1 g/10 min
High Load Melt Index ² (190/21.6)	ASTM. D1238	4 – 20 g/10 min
Density with 2% minimum carbon black	ASTM. D792	0.955 g/cm ³
Tensile strength at yield (2 in/min)	ASTM. D638	>3000 psi
Tensile elongation (2 in/min)	ASTM. D638	>700%
Flexural modulus	ASTM. D790	110,000 < 160,000 psi
SCG Resistance, PENT (80°C, 2.4 MPa)	ASTM. F1473	>100 h
Thermal stability	ASTM. D3350	>428°F (>220°C)
Brittleness temperature	ASTM. D746	<-103°F (<-75°C)
Thermal expansion coefficient	ASTM. D696	9 x 10 ⁻⁵ in/in/°F
HDB ³ at 140°F (60°C)	D2837/PPI TR-3	800 psi
HDS ³ at 73°F (23°C)	D2837/PPI TR-3	800 psi
HDS at 140°F (60°C)	D2837/PPI TR-3	400 psi

Contact WL Plastics Customer Service for availability. (1) Typical values determined from laboratory tests of resin plaques and specimens prepared in accordance with industry standard test methods. Values determined on samples taken from pipe may vary. The typical values presented herein are for PE3608 polyethylene pipe compounds (resin) but do not constitute engineering properties for pipe. (2) Overall range of HLMI values for all compounds from all WL Plastics compound suppliers; HLMI variation for an individual compound will be well within the overall range. (3) Listed HDB and HDS ratings are published by the Plastics Pipe Institute in PPI TR-4 by the compound manufacturer (independent listing) and by WL Plastics (dependent listing) in accordance with ASTM D 2837 and PPI TR-3. Compound supplier codes for WL Plastics PE3608 PPI dependent listings are D (Dow), N (Nova), S (Ineos), and T (Total).

This publication is intended for use as a piping system guide. It should not be used in place of a professional engineer's judgment or advice and it is not intended as installation instructions. The information in this publication does not constitute a guarantee or warranty for piping installations and cannot be guaranteed because the conditions of use are beyond our control. The user of this information assumes all risk associated with its use. WL Plastics Corporation has made every reasonable effort to ensure accuracy, but the information in this publication may not be complete, especially for special or unusual applications. Changes to this publication may occur from time to time without notice. Contact WL Plastics Corporation to determine if you have the most current edition. Publication duplication permitted.



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