WL106 PE4710 PIPE COMPOUND



Typical Physical Properties for WL Plastics PE4710 Pipe Compound

- WL Plastics PE4710 pipe is manufactured from pressure rated PE4710 polyethylene compounds that meet or exceed ASTM D3350 requirements and Cell Classification PE445574C. WL Plastics PE4710 compound meets or exceed ASTM D3350 requirements and Cell Classification PE345464C and material code designations PE3608 and PE3408.
- WL Plastics PE4710 polyethylene pipe compounds are Listed by PPI in TR-4 and are stress rated for pressure pipe with PPI HDS ratings for water at 73°F (23°C) and PPI HDB ratings at 73°F (23°C) and 140°F (60°C).
- WL Plastics PE4710 exceeds PPI TR-3 and ASTM D3350 SCG resistance requirements per ASTM F1473 (PENT). WL Plastics PE4710 ductility is substantiated with greater than 438,300 hours (50 years) at 73°F (23°C) before the onset of SCG.
- For potable water service, WL Plastics PE4710 black polyethylene compounds are certified to NSF-61

Test Method	Typical Value ⁽¹⁾
ASTM D3350	PE445574C
ASTM D1238	0.1 g/10 min
ASTM D1238	4 – 20 g/10 min
ASTM D792/D1505	0.941-0.959 g/cm ³
ASTM D792/D1505	0.960 g/cm ³
ASTM D638	3500 – 4000 psi
ASTM D638	>400%
ASTM D790	>120,000 psi
ASTM F1473	> 500 h
ASTM D3350	>428°F (> 220°C)
ASTM D746	<-103°F (<-75°C)
ASTM D696	8 x 10 ⁻⁵ in/in/°F
ASTM D2837/PPI TR-3	1600 psi (11.0 MPa)
ASTM D2837/PPI TR-3	1000 psi (6.9 MPa)
ASTM D2837/PPI TR-3	1000 psi (6.9 MPa)
ASTM D2837/PPI TR-3	630 psi (4.3 MPa)
ISO 13477	>174 psi (>1.2 MPa) ⁽⁴⁾
ISO 13477	<2°F (<-17°C) ⁽⁴⁾
	ASTM D3350 ASTM D1238 ASTM D1238 ASTM D792/D1505 ASTM D792/D1505 ASTM D638 ASTM D638 ASTM D638 ASTM D790 ASTM F1473 ASTM D3350 ASTM D746 ASTM D746 ASTM D696 ASTM D2837/PPI TR-3 ISO 13477

Contact WL Plastics Customer Service for availability. (1)Typical values determined from laboratory tests of samples of compounds (resins) prepared as plaque specimens in accordance with industry standard test methods. Values determined on samples prepared from pipe may vary. The typical values presented herein are for PE4710 polyethylene pipe compounds (resins) 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 in accordance with ASTM D 2837 and PPI TR-3 are published in PPI TR-4 by the compound manufacturer (independent listing) and by WL Plastics (dependent listing). WL Plastics dependent listing compounds are identified by a compound code for the supplier: C (Chevron-Phillips); D (Dow); E (Lyondell Basell); S (Ineos). (4)RCP data not available for compound code C.

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