

LyondellBasell Alathon[®] L5008HP High Density Polyethylene, Pressure Pipe Extrusion Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

Material Notes:

ALATHON L5008HP is a bimodal, high molecular weight, high density polyethylene resin with excellent processability designed to meet the high performance requirements of pressure pipe applications including gas distribution, industrial piping, gas gathering, municipal water service lines and sewer lines. When L5008HP is compounded with an Equistar approved black concentrate this formula meets the following standards. Plastics Pipe Institute (PPI) PE 4710 per ASTM D 3350-06 Plastics Pipe Institute (PPI) PE 3408 per ASTM D 3350-02a NSF Standard 14 and Standard 61 for Potable Water Pipe and Fittings. ASTM D 3350 Cell Classification 445574C. Chemical Resistance per ASTM D 2513-01a, Section 5.4. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-L5008HP-High-Density-Polyethylene-Pressure-Pipe-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Melt Flow	0.070 g/10 min	0.070 g/10 min	ASTM D1238
	16 g/10 min	16 g/10 min	High Load; ASTM D1238

Mechanical Properties	Metric	English	Comments
PENT	>= 1500 hour @Temperature 80.0 °C	>= 1500 hour @Temperature 176 °F	2.4MPa
Tensile Strength at Break	35.2 MPa	5100 psi	ASTM D638
Tensile Strength, Yield	24.1 MPa	3500 psi	ASTM D638
Elongation at Break	800 %	800 %	ASTM D638
2% Secant Modulus	1.01 GPa	147 ksi	ASTM D790
Hydrostatic Design Basis	11.0 MPa	1600 psi	ASTM D2837
	6.89 MPa @Temperature 60.0 °C	1000 psi @Temperature 140 °F	ASTM D2837

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.0 °C	169 °F	ASTM D648
DSC Induction Temperature	250 °C	482 °F	

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