

Alathon® L5008

High Density (HMW) Polyethylene
LyondellBasell Industries

Message:

Alathon L5008 is a bimodal, high molecular weight, high density polyethylene resin with excellent processing characteristics. L5008 is selected by customers for demanding pressure pipe applications.

When L5008 is combined with an Equistar approved black at the correct loading, this compound meets the following standards:

Plastics Pipe Institute (PPI) PE 4608 per PPI TR-3
Plastics Pipe Institute (PPI) PE 3408 per PPI TR-4
PE80 per ISO 9080 & ISO 12162
ASTM D3350 Cell Classification PE445564C
Chemical Resistance per ASTM D2513
NSF Standard 14 and Standard 61 for Potable Water Pipe and Fittings
NSF Standard 358-1 for PE Pipe and Fittings for "Geothermal" Heat Pump Systems

General Information			
Features	Bimodal Molecular Weight Distribution		
	Copolymer		
	Good Processability		
	High Molecular Weight		
Uses	Fittings		
	Piping		
Agency Ratings	ASTM D 3350 PE445564C		
	ISO 12162 PE 80		
	ISO 9080 PE 80		
	NSF 14		
	NSF 358-1		
	NSF 61		
	PPI PE-3408		
	PPI PE-4608		
	PPI TR-3		
	PPI TR-4		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238

190°C/2.16 kg	0.070	g/10 min	
190°C/21.6 kg	16	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	24.4	MPa	
Break	34.3	MPa	
Tensile Elongation (Break)	640	%	ASTM D638
Flexural Modulus - 2% Secant	972	MPa	ASTM D790
Hydrostatic Design Basis			ASTM D2837
23°C	11.0	MPa	
60°C	6.89	MPa	
DSC Induction Temperature	267	°C	ASTM D3350
PENT (80°C) ¹	> 100	hr	ASTM F1473
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	68.0	°C	ASTM D648
NOTE			
1.	2.4 MPa		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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