

Alathon®

L 5008

High Density Polyethylene Pressure Pipe Extrusion Grade High Load Melt Index 17 Density 0.950

Applications

ALATHON L 5008 is a high molecular weight high density polyethylene copolymer resin with broad and bimodal molecular weight distribution. Typical applications for this resin are pipes, conduits, sheet and injection molded fittings.

Regulatory Status

When L 5008 is compounded with an Equistar [approved black concentrate](#), this [formula](#) meets the following standards and classifications.

- Plastics Pipe Institute (PPI) PE3408 Standard Grade for pipe applications at 1600 psi HDB at 73°F (23°C)
- Plastics Pipe Institute (PPI) PE 3408 Standard Grade for pipe applications at 1,000 psi HDB at 140°F (60°C)
- National Sanitation Foundation (NSF) Standard 14 and Standard 61 for Potable Water Pipe and Fittings.
- ASTM D 3350 Cell Classification **445464C**.
- [Chemical Resistance per ASTM D 2513-01a, Section 5.4](#)

Processing Techniques

Specific recommendations for [processing](#) L 5008 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Physical Properties

Property	Nominal Value	Units	ASTM Test Method
High Load Melt Index	17	g/10 min	D 1238
Melt Index	0.08	g/10 min	D 1238
Density	0.950	g/cc	D 1505
DSC Induction Temperature	>250	°C	D 3350
1% Secant Modulus	160,000	psi	D 790
Tensile Strength @ Yield	3,400	psi	D 638
Tensile Strength @ Break	5,100	psi	D 638
Elongation @ Break	>780	%	D 638
Heat Deflection Temperature @66 psi	76	°C	D 648
PENT	>500	hours	F 1473

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