

## LyondellBasell Alathon<sup>®</sup> L5008 High Density Polyethylene

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

### Material Notes:

**Applications**ALATHON L 5008 is a high molecular weight high density polyethylene copolymer resin with broad and bimodal molecular weight distribution.**Regulatory Status**When L 5008 is compounded with an Equistar approved black concentrate it 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) PE4608 (E4) Grade** for pipe applications at 1000 psi HDB at 140°F (60°C).**NSF Standard 14 and Standard 61** for Potable Water Pipe and Fittings.**ASTM D 3350 Cell Classification 445564C**.**Processing**Specific recommendations for processing conditions can be made only when the equipment, conditions, and end use are known.This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Alathon-L5008-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-L5008-High-Density-Polyethylene.php)

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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.2 MPa	5100 psi	ASTM D638
Tensile Strength, Yield	23.4 MPa	3400 psi	ASTM D638
Elongation at Break	800 %	800 %	ASTM D638
1% Secant Modulus	1100 MPa	160000 psi	ASTM D790

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	ASTM D3350

## Contact Songhan Plastic Technology Co.,Ltd.

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