Technical Data Sheet

Alathon L5008HP

High Density Polyethylene

Product Description

Alathon L5008HP is a bimodal, high molecular weight, high density polyethylene resin with excellent processing characteristics. L5008HP is selected by customers for pressure pipe applications including industrial piping, mining, oil & gas gathering, municipal water service lines and sewers.

Regulatory Status

For regulatory compliance information, see *Alathon* L5008HP Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial
Availability	Africa-Middle East; Asia-Pacific
Application	Drinking Water Pipe
Market	Industrial, Building & Construction; Pipe
Processing Method	Pipe

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/5.0 kg)	0.37	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	16	g/10 min	ISO 1133-1
Density, (23 °C)	0.949	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus, (1% Secant)	1010	MPa	ISO 178
Tensile Modulus, (23 °C, 1 mm/min, Chord)	1030	MPa	ISO 527-1, -2
Tensile Stress at Break, (23 °C)	30.2	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C)	24.1	MPa	ISO 527-1, -2
Tensile Elongation at Break, (23 °C)	1500	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	17.4	kJ/m²	ISO 179-1/1eA
(-30 °C)	6.6	kJ/m²	ISO 179-1/1eA
Hardness			
Shore Hardness, (Shore D, 3 sec)	66		ISO 868
Thermal			
Vicat Softening Temperature, (B50)	70	°C	ISO 306
Oxidation Induction Time, (210 °C)	35	min	ISO 11357-6

Manufacturer website: https://www.lyondellbasell.com/en/

Notes

Typical Property values were determined on natural L5800HP resin, unless otherwise noted.

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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