

Technical Data Sheet

Alathon L5008

High Density Polyethylene



Product Description

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 combined with an approved color or black masterbatch at the correct use level, L5008 may meet the following standards or requirements (see Technical Data Sheet for limitations and more information):

- ASTM D3350 Cell Classifications: PE445564C CC0, PE445564E CC0, PE445565C CC0, and PE445565E CC0
- 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
- PE80 per ISO 9080 & ISO 12162
- Plastics Pipe Institute (PPI) PE 3408 and PE4608 per PPI TR-3

Application Drinking Water Pipe

Market Industrial, Building & Construction; Pipe

Processing Method Pipe

Nominal	English			
Value	Units	Value	Units	Test Method
0.07	g/10 min	0.07	g/10 min	ASTM D1238
16	g/10 min	16	g/10 min	ASTM D1238
0.949	g/cm³	0.949	g/cm³	ASTM D1505
141000	psi	972	MPa	ASTM D790
4970	psi	34.3	MPa	ASTM D638
3560	psi	24.5	MPa	ASTM D638
635	%	635	%	ASTM D638
>100	hr	>100	hr	ASTM F1473
vith an approved	l masterbatch.			
154	°F	68	°C	ASTM D648
500	°F	260	°C	ASTM D3350
100	min	100	min	ASTM D3895
vith an approved	l masterbatch.			
1600	psi			ASTM D2837
1000	psi			ASTM D2837
		8	MPa	ISO 12162
	0.07 16 0.949 141000 4970 3560 635 >100 vith an approved	Value Units 0.07 g/10 min 16 g/10 min 0.949 g/cm³ 141000 psi 4970 psi 635 % >100 hr vith an approved masterbatch. *F 500 °F 100 min vith an approved masterbatch. *F 1600 psi	Value Units Value 0.07 g/10 min 0.07 16 g/10 min 16 0.949 g/cm³ 0.949 141000 psi 972 4970 psi 34.3 3560 psi 24.5 635 % 635 >100 hr >100 vith an approved masterbatch. 68 500 °F 260 100 min 100 vith an approved masterbatch. 1600 psi 1000 psi 1000 1000 psi 1000	Value Units Value Units 0.07 g/10 min 0.07 g/10 min 16 g/10 min 16 g/10 min 0.949 g/cm³ 0.949 g/cm³ 141000 psi 972 MPa 4970 psi 34.3 MPa 3560 psi 24.5 MPa 635 % 635 % >100 hr >100 hr vith an approved masterbatch. 100 min 100 min 1600 psi 100 psi 100 psi 100 psi