

# Alathon® L5800I

High Density Polyethylene  
LyondellBasell Industries

Message:

ALATHON L 5800-I, designed for high performance applications, exhibits excellent color, low odor, and good processing stability . A typical application for this resin is open-head pails.

General Information			
Features	Good processing stability		
	The smell is low to none		
	Compliance of Food Exposure		
Uses	Barrel		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield <sup>1</sup>	28.9	MPa	ASTM D638
Fracture	29.1	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	6.9	%	ASTM D638
Flexural Modulus <sup>3</sup>			ASTM D790
1% secant	1380	MPa	ASTM D790
2% secant	1140	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.1	°C	ASTM D648
Brittleness Temperature	-76.1	°C	ASTM D746
Vicat Softening Temperature	130	°C	ASTM D1525
Additional Information			
Spiral Flow, Equistar Test Method, 0.625 in insert, 1000 psi injection pressure, 440°F melt temperature: 7.4 in			
Injection	Nominal Value	Unit	
Rear Temperature	232	°C	
Middle Temperature	243	°C	
Front Temperature	246	°C	

Nozzle Temperature	246	°C
NOTE		
1.	51 mm/min	
2.	51 mm/min	
3.	13 mm/min	

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#### Recommended distributors for this material

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