

Technical Data Sheet

Alathon L5876



High Density Polyethylene

Product Description

Alathon L5876 is selected by customers for use in injection blow molding and extrusion blow molding applications where higher gloss than standard HDPE grades is required.

Regulatory Status

For regulatory compliance information, see *Alathon* L5876 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Bottles For Consumer Goods
Market	Rigid Packaging
Processing Method	Extrusion Blow Molding
Attribute	High Gloss

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.74	g/10 min	0.74	g/10 min	ASTM D1238
Density, (23 °C)	>=0.956	g/cm ³	>=0.956	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	195000	psi	1340	MPa	ASTM D790
Tensile Strength at Yield	4100	psi	28.3	MPa	ASTM D638
Tensile Elongation at Break	>500	%	>500	%	ASTM D638
Impact					
Tensile Impact Strength	160	ft-lb/in ²	336	kJ/m ²	ASTM D1822
Hardness					
Shore Hardness, (Shore D)	66		66		ASTM D2240
Thermal					
Vicat Softening Temperature	264	°F	129	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	169	°F	76	°C	ASTM D648

Notes

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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