Technical Data Sheet

Alathon L5840

High Density Polyethylene

lyondellbasell

Product Description

Alathon L5840 is a lightweighting resin that exhibits excellent color, low odor and provides processing stability. Typical applications include personal care, household chemicals, industrial chemicals, detergent and motor oil bottles.

Regulatory Status

For regulatory compliance information, see *Alathon* L5840 <u>Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).</u>

Status Commercial: Active

Availability North America

Application Bottles For Consumer Goods

Market Rigid Packaging

Processing Method Extrusion Blow Molding

Attribute High Stiffness

	Nominal	English	Nominal	SI	
Typical Properties	Value	Units	Value	Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.35	g/10 min	0.35	g/10 min	ASTM D1238
Density, (23 °C)	0.958	g/cm³	0.958	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	211000	psi	1460	MPa	ASTM D790
Tensile Strength at Yield	4400	psi	30.3	MPa	ASTM D638
Tensile Elongation at Break	>600	%	>600	%	ASTM D638
Environmental Stress Crack Resistance, F₅₀	25	hr	25	hr	ASTM D1693
(100% Igepal®, Cond B)					
Impact					
Tensile Impact Strength	140	ft-lb/in²	294	kJ/m²	ASTM D1822
Hardness					
Shore Hardness, (Shore D)	68		68		ASTM D2240
Thermal					
Vicat Softening Temperature	262	°F	128	°C	ASTM D1525
Low Temperature Brittleness, F₅o	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	178	°F	81	°C	ASTM D648

Notes

Igepal® is a registered trademark of Rhodia.

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/.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.

LyondellBasell Technical Data Sheet Date: 11/28/2018