

Alathon® H5234

High Density Polyethylene
LyondellBasell Industries

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Technical Data

Product Description

Alathon H5234 is a high flow injection molding grade of resin selected by customers for fast cycle and thin wall molding. It provides good cold temperature impact resistance. Typical applications include frozen food, ice cream, and deli/condiment containers.

General

Material Status	• Commercial: Active
Literature ¹	• Processing - Mold Shrink (English) • Processing - Polyolefin Injection Molding Guide (English) • Processing - Start-Up Guide (English) • Technical Datasheet (English)
Search for UL Yellow Card	• LyondellBasell Industries • Alathon®
Availability	• North America
Features	• Fast Molding Cycle • High Flow • Low Temperature Impact Resistance
Uses	• Containers • Food Containers • Household Goods • Packaging • Rigid Packaging • Thin-walled Containers • Thin-walled Parts
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density ³	0.952 g/cm ³	ASTM D1505
Apparent (Bulk) Density	0.59 to 0.63 g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	34 g/10 min	ASTM D1238
Spiral Flow	39.4 cm	Internal Method
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		ASTM D638
--	938 MPa	
1% Secant	758 MPa	
Tensile Strength (Break, 23°C)	26.0 MPa	ASTM D638
Tensile Elongation (Break, 23°C)	9.0 %	ASTM D638
Flexural Modulus		ASTM D790
--	1210 MPa	
1% Secant	1170 MPa	
2% Secant	946 MPa	
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	26 J/m	ASTM D256
Unnotched Izod Impact (-18°C)	530 J/m	ASTM D4812
Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	68	ASTM D2240
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	69.0 °C	ASTM D648
Brittleness Temperature	< -76.0 °C	ASTM D746
Vicat Softening Temperature	121 °C	ASTM D1525
Peak Melting Temperature	128 °C	ASTM D3418
Peak Crystallization Temperature (DSC)	114 °C	ASTM D3418

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 23°C



Where to Buy

Supplier

LyondellBasell Industries

Wilmington, DE USA

Telephone: 713-309-7200

Web: <https://www.lyondellbasell.com/>

Distributor

CCC Plastics

Telephone: 800-465-6917

Web: <https://www.ccc-group.com/>

Availability: Canada

M. Holland Canada Company

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

M. Holland Company

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

Nexeo Plastics

Telephone: 833-446-3936

Web: <https://www.nexeoplastics.com/>

Availability: North America

Osterman & Company

Telephone: 800-914-4437

Web: <http://www.osterman-co.com/>

Availability: North America

Plastic Service Centers

Telephone: 586-307-3900

Web: <http://www.plasticservice.com/>

Availability: North America

