Technical Data Sheet

Alathon H6011

High Density Polyethylene

Product Description

Alathon H6011 provides good processing characteristics, good stiffness, and impact resistance. Typical applications include crates and pallets.

Regulatory Status

For regulatory compliance information, see *Alathon* H6011 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Crates; Pallets/Trays/Tote Bins
Market	Rigid Packaging
Processing Method	Injection Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	12	g/10 min	12	g/10 min	ASTM D1238
Density, (23 °C)	0.960	g/cm³	0.960	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus					
(1% Secant)	205000	psi	1410	MPa	ASTM D790
(2% Secant)	171000	psi	1180	MPa	ASTM D790
Flexural Young's Modulus	231000	psi	1590	MPa	ASTM D790
Tensile Stress at Yield, (23 °C)	4220	psi	29.1	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	10	%	10	%	ASTM D638
Impact					
Notched Izod Impact Strength, (23 °C)	0.82	ft-lb/in	42	J/m	ASTM D256
Thermal					
Vicat Softening Temperature	261	°F	127	°C	ASTM D1525
Deflection Temperature Under Load, (66 psi, Unannealed)	167	°F	75	°C	ASTM D648

Manufacturer website: https://www.lyondellbasell.com/en/

Notes

Conditions of Tensile Stress and Elongation values are: 50 mm/min, Type IV specimen.

Conditions of Flexural Modulus values are: 0.5 inches/min or 12.5 mm/min.

Conditions of Tensile Modulus values are: 50 mm/min, Type I Specimen.

Spiral Flow measures the number of inches of flow produced when molten resin is injected into a long, spiral channel (0.0625" insert), at a constant injection pressure of 1000 psi with a melt temperature of 440 °F.

Deflection Temperature Under Load and Low Temperature Brittleness data are for control and development work and are not intended for use in design or predicting performance at elevated or sub-ambient temperatures.

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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