Technical Data Sheet

Alathon H4262GX01

High Density Polyethylene

Product Description

Alathon H4262GX01 is a pelletized HDPE resin selected by customers for injection molding. Typical applications include thin-walled containers that require high flow and short cycle times. H4262GX01 exhibits excellent flow and cold temperature impact resistance.

Regulatory Status

For regulatory compliance information, see *Alathon* H4262GX01 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS). To obtain copies of these documents, please contact your LyondellBasell product safety representative.

Status	Developmental
Availability	North America
Application	Containers
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)	62	g/10 min	62	g/10 min	ASTM D1238
Density, (23 °C)	0.942	g/cm³	0.942	g/cm³	ASTM D1505
Spiral Flow	16.0	in	41.0	cm	LYB Method
Mechanical					
Flexural Modulus					
(1% Secant)	135000	psi	930	MPa	ASTM D790
(2% Secant)	115000	psi	790	MPa	ASTM D790
Tensile Strength at Break, (23 °C)	2900	psi	20	MPa	ASTM D638
Tensile Strength at Yield, (23 °C)	3000	psi	21	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	8.5	%	8.5	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	57		57		ASTM D2240
Thermal					
Vicat Softening Temperature	230	°F	110	°C	ASTM D1525

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

Notes

Tensile properties were run with a crosshead speed of 2 inches/min or 50 mm/min.

Flexural Modulus properties were run with a crosshead speed of 0.5 inches/min or 12.5 mm/min.

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.

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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