

Technical Data Sheet



Petrothene GA684192

Linear Low Density Polyethylene

Product Description

Petrothene GA684192 is a pelletized LLDPE copolymer resin selected by customers for injection molding. Typical applications include lids and thin-walled items that require high flow and short cycle times. GA684192 exhibits excellent flow, warp resistance and surface appearance.

Regulatory Status

For regulatory compliance information, see Petrothene GA684192 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Lids
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)	100	g/10 min	100	g/10 min	ASTM D1238
Density, (23 °C)	0.929	g/cm ³	0.929	g/cm ³	ASTM D1505
Spiral Flow	23.2	in	59.0	cm	LYB Method
Mechanical					
Flexural Modulus, (0.05 in/min, 1% Secant, Procedure A)	94000	psi	650	MPa	ASTM D790
Tensile Strength at Yield, (2 in/min)	2700	psi	18	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	9	%	9	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	57		57		ASTM D2240
Thermal					
Vicat Softening Temperature, (A50)	200	°F	93	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	-22	°F	-30	°C	ASTM D746
Heat Deflection Temperature, (0.45 MPa)	120	°F	49	°C	ASTM D648



Notes

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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