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Petrothene

GA694189

Linear Low Density Polyethylene Injection Molding Grade Melt Index 160 Density 0.933



Applications

Petrothene GA694189 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. GA694189 exhibits excellent flow, warp resistance and surface appearance.

Regulatory Status GA694189 meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar Product Safety representative for more information.

Processing Techniques

Specific recommendations for processing GA694189 can only be made when the processing conditions, equipment and end use are known.

Suggested Start-up Conditions

Extruder Zone	Rear	Center	Front	Nozzle
Cylinder Temperature °F (°C)	350 (177)	375 (190)	400 (204)	400 (204)

Typical Properties

	Nominal		
Property	Value	Units	Test Method
Melt Index	160	g/10 min	ASTM D1238
Density	0.933	g/cc	ASTM D1505
Spiral Flow ¹	29 (73.0)	in (cm)	Equistar
Tensile Strength @ Break ²	2,300 (16)	psi (MPa)	ASTM D638
Tensile Strength @ Yield ²	2,500 (17)	psi (MPa)	ASTM D638
Elongation @ Yield²	10	%	ASTM D638
1% Secant Modulus ³	94,000 (650)	psi (MPa)	ASTM D790
2% Secant Modulus ³	83,000 (570)	psi (MPa)	ASTM D790
Vicat Softening Point	198 (92)	°F (°C)	ASTM D1525
Hardness, Shore D	62		ASTM D2240
Heat Deflection Temperature, 66 psi	127 (53)	°F (°C)	ASTM D648
Low Temperature Brittleness, F ₅₀ ⁴	19 (-7)	°F (°C)	ASTM D746

¹ Measures the number on inches of flow produced when molten resin is injected into a long, spiral channel (0.625" insert), at a constant injection pressure of 1000 psi with a melt temperature of 440°F.

These are typical values not to be construed as specification limits.

² Crosshead speed – 2 in/ min

³ Crosshead speed - 1/2 in/ min

⁴ Test method does not necessarily indicate the lowest temperature at which the material may be used.