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Petrothene

GA584189

Linear Low Density Polyethylene Injection Molding Grade Melt Index 105 Density 0.929



Applications

Petrothene GA584189 exhibits exceptional flow for high speed molding of lids, while providing good ESCR and tear resistance.

Regulatory Status GA584189 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 GA584189 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	105	g/10 min	ASTM D1238
Density	0.929	g/cc	ASTM D1505
Spiral Flow ¹	24.3 (61.8)	in (cm)	Equistar
Tensile Strength @ Break ²	1,700 (12)	psi (MPa)	ASTM D638
Tensile Strength @ Yield ²	2,200 (15)	psi (MPa)	ASTM D638
Elongation @ Yield ²	11	%	ASTM D638
1% Secant Modulus ³	80,000 (550)	psi (MPa)	ASTM D790
2% Secant Modulus ³	69,000 (480)	psi (MPa)	ASTM D790
Vicat Softening Point	182 (83)	°F (°C)	ASTM D1525
Hardness, Shore D	60		ASTM D2240
Heat Deflection Temperature, 66 psi	124 (51)	°F (°C)	ASTM D648
Low Temperature Brittleness, F ₅₀ ⁴	-73 (-59)	°F (°C)	ASTM D746

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.

² Crosshead speed – 2 in/ min

³ Crosshead speed - ½ in/ min

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