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Petrothene®

GA564189

Linear Low Density Polyethylene **Injection Molding Grade** Melt Index 21 Density 0.924

Applications

PETROTHENE GA564189 exhibits good stiffness and low temperature toughness. Typical applications include trash cans, industrial containers, housewares and toys.

Regulatory Status

GA564189 meets the requirements of the Food and Drug Administration 21 CFR 177.1520. This regulation allows the use of this olefin polymer in" ...articles or components or articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information.

Processing **Techniques**

Specific recommendations for processing GA564189 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Suggested Start-up Conditions	Extruder Zone Cylinder Temperature °F (°C)	Rear 350 (177)	Center 375 (190)	Front 400 (204)	Nozzle 400 (204)
Typical Properties	Property Melt Index Density Spiral Flow ¹ Tensile Strength @ Break Tensile Strength @ Yield ² Elongation @ Yield ² 1% Secant Modulus ³ 2% Secant Modulus ³ Vicat Softening Point Hardness, Shore D Heat Deflection Temperature, 66 ps Low Temperature Brittleness, F ₅₀ ⁵	Nominal Va 21 0.924 12.9 (32.8) 1,200 (8) 2,000 (14) 12 55,000 (320 205 (96) 53 i ⁴ 117 (47) < -105 (<-7)])]	Units g/10 min g/cc in (cm) psi (MPa) psi (MPa) % psi (MPa) °F (°C) °F (°C) °F (°C)	Test Method ASTM D 1238 ASTM D 1505 Equistar ASTM D 638 ASTM D 638 ASTM D 790 ASTM D 790 ASTM D 1525 ASTM D 2240 ASTM D 648 ASTM D 746

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 1,000 psi with a melt temperature of 440°F.

² Crosshead speed – 20 in/ min

 3 Crosshead speed - $^{1\!\!/_2}$ in/ min

⁴ Data is for control and development work and not intended for use in design or predicting endurance at elevated temperatures.

⁵ Test method has been found useful for specification purposes, but does not necessarily indicate the lowest temperature at which the material may be used.