

## LyondellBasell Petrothene® GA564189 Linear Low Density Polyethylene, Injection Molding Grade

Category: Polymer, Thermoplastic, Polyethylene (PE), LLDPE, Linear Low Density Polyethylene (LLDPE), Injection Molded

## **Material Notes:**

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 inâ€â€|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. 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. This product is from the former Equistar product line.

## Order this product through the following link:

http://www.lookpolymers.com/polymer\_LyondellBasell-Petrothene-GA564189-Linear-Low-Density-Polyethylene-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in³	ASTM D1505
Melt Flow	21 g/10 min	21 g/10 min	ASTM D1238
Spiral Flow	32.8 cm	12.9 in	Equistar test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	ASTM D2240
Tensile Strength at Break	8.27 MPa	1200 psi	ASTM D638
Tensile Strength, Yield	13.8 MPa	2000 psi	20"/min; ASTM D638
Elongation at Yield	12 %	12 %	20"/min; ASTM D638
1% Secant Modulus	379 MPa	55000 psi	0.5"/min; ASTM D790
2% Secant Modulus	0.317 GPa	46.0 ksi	0.5"/min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	47.0 °C	117 °F	ASTM D648
Vicat Softening Point	96.0 °C	205 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	F <sub>50</sub> ; ASTM D746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 °C	350 °F	



Processing Properties	Metric 1917A O	English 313 A T	Comments	
Front Barrel Temperature	204 °C	400 °F		
Nozzle Temperature	204 °C	400 °F		

## **Contact Songhan Plastic Technology Co.,Ltd.**

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