

## LyondellBasell Petrothene<sup>®</sup> GA594189 Linear Low Density Polyethylene, Injection Molding Grade

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

### Material Notes:

PETROTHENE GA594189 is a pelletized LLDPE copolymer resin for injection molding thin-walled items requiring high flow and short cycle times. GA594189 exhibits excellent flow, warp resistance and surface appearance. Specific recommendations for processing GA594189 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-GA594189-Linear-Low-Density-Polyethylene-Injection-Molding-Grade.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA594189-Linear-Low-Density-Polyethylene-Injection-Molding-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.933 g/cc	0.0337 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	140 g/10 min	140 g/10 min	ASTM D1238
Spiral Flow	67.8 cm	26.7 in	Equistar test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ASTM D2240
Tensile Strength at Break	17.3 MPa	2510 psi	ASTM D638
Tensile Strength, Yield	17.3 MPa	2510 psi	2"/min; ASTM D638
Elongation at Yield	9.8 %	9.8 %	2"/min; ASTM D638
1% Secant Modulus	669 MPa	97000 psi	0.5"/min; ASTM D790
2% Secant Modulus	0.572 GPa	83.0 ksi	0.5"/min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	52.0 Å°C	126 Å°F	ASTM D648
Vicat Softening Point	91.0 Å°C	196 Å°F	ASTM D1525
Brittleness Temperature	<= -27.0 Å°C	<= -16.6 Å°F	F<SUB>50</SUB>; ASTM D746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 Å°C	350 Å°F	
Middle Barrel Temperature	191 Å°C	375 Å°F	

Processing Properties	Metric	English	Comments
Nozzle Temperature	204 °C	400 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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