

LyondellBasell Petrothene® GA574189 Linear Low Density Polyethylene, Injection Molding Grade

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

Material Notes:

PETROTHENE GA574189 exhibits excellent flow and impact with good stiffness. Typical applications include lids, closures, containers, housewares and medical items. Regulatory Status: GA574189 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 sales representative for more information. Specific recommendations for processing GA574189 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-GA574189-Linear-Low-Density-Polyethylene-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	ASTM D1505
Melt Flow	50 g/10 min	50 g/10 min	ASTM D1238
Spiral Flow	49.0 cm	19.3 in	Equistar test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	ASTM D2240
Tensile Strength at Break	10.3 MPa	1500 psi	ASTM D638
Tensile Strength, Yield	14.5 MPa	2100 psi	20"/min; ASTM D638
Elongation at Yield	8.2 %	8.2 %	20"/min; ASTM D638
1% Secant Modulus	441 MPa	64000 psi	0.5"/min; ASTM D790
2% Secant Modulus	0.414 GPa	60.0 ksi	0.5"/min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	50.0 Å°C	122 Å°F	ASTM D648
Vicat Softening Point	96.0 Å°C	205 Å°F	ASTM D1525
Brittleness Temperature	<= -76.0 Å°C	<= -105 Å°F	F₅₀; ASTM D746

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

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	191 Å°C	375 Å°F	
Front Barrel Temperature	204 Å°C	400 Å°F	
Nozzle Temperature	204 Å°C	400 Å°F	

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