

LyondellBasell Microthene® MP564189 Linear Low Density Polyethylene, Injection Molding Grade

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

Material Notes:

Applications Microthene MP564189 exhibits good stiffness and low temperature toughness. Typical applications include trash cans, industrial containers, housewares and toys. MP564189 is 16 mesh powder and is also available in pellet form Petrothene GA564189. **Regulatory Status** MP564189 meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520. **Processing Techniques** Specific recommendations for processing MP564189 can only be made when the processing conditions, equipment and end use are known.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Microthene-MP564189-Linear-Low-Density-Polyethylene-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D1505
Melt Flow	20 g/10 min	20 g/10 min	ASTM D1238
Spiral Flow	32.0 cm	12.6 in	Equistar

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	ASTM D2240
Tensile Strength at Break	8.27 MPa	1200 psi	20 in/min; ASTM D638
Tensile Strength, Yield	14.5 MPa	2100 psi	20 in/min; ASTM D638
Elongation at Yield	12 %	12 %	20 in/min; ASTM D638
1% Secant Modulus	434 MPa	63000 psi	0.5 in/min; ASTM D790
2% Secant Modulus	0.379 GPa	55.0 ksi	0.5 in/min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	45.0 °C	113 °F	ASTM D648
Vicat Softening Point	91.1 °C	196 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	F ₅₀ ; ASTM D746

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 Â°C	350 Â°F	
Middle Barrel Temperature	191 Â°C	375 Â°F	
Front Barrel Temperature	204 Â°C	400 Â°F	
Nozzle Temperature	204 Â°C	400 Â°F	

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