

LyondellBasell Microthene® MP574189 Linear Low Density Polyethylene, Injection Molding Grade

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

Material Notes:

Applications Microthene MP574189 exhibits excellent flow and impact with good stiffness. Typical applications include lids, closures, containers, housewares and medical items. MP574189 is 16 mesh powder and is also available in pellet form Petrothene

GA574189.Regulatory Status MP574189 meets the requirements of the Food and Drug Administration regulation, 21 CFR

177.1520.Processing Techniques Specific recommendations for processing MP574189 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-MP574189-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	45.5 cm	17.9 in	Equistar

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength at Break	8.96 MPa	1300 psi	20 in/min; ASTM D638
Tensile Strength, Yield	15.2 MPa	2200 psi	20 in/min; ASTM D638
Elongation at Yield	11 %	11 %	20 in/min; ASTM D638
1% Secant Modulus	483 MPa	70000 psi	0.5 in/min; ASTM D790
2% Secant Modulus	0.421 GPa	61.0 ksi	0.5 in/min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	47.2 Â°C	117 Â°F	ASTM D648
Vicat Softening Point	84.4 Â°C	184 Â°F	ASTM D1525
Brittleness Temperature	-72.2 Â°C	-98.0 Â°F	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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