(+) 188 1699 6168 hongrunplastics.com

Microthene

MP564189

Linear Low Density Polyethylene Injection Molding Grade Melt Index 20 Density 0.924



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. 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 Product Safety representative for more information.

Processing Techniques

Specific recommendations for processing MP564189 can only be made when the processing conditions, equipment and end use are known.

Suggested Start-up Conditions
 Extruder Zone
 Rear
 Center
 Front
 Nozzle

 Cylinder Temperature °F (°C)
 350 (177)
 375 (190)
 400 (204)
 400 (204)

Typical Properties

	Nominal		
Property	Value	Units	Test Method
Melt Index	20	g/10 min	ASTM D1238
Density	0.924	g/cc	ASTM D1505
Spiral Flow ¹	12.6 (32.1)	in (cm)	Equistar
Tensile Strength @ Break ²	1,200 (8)	psi (MPa)	ASTM D638
Tensile Strength @ Yield ²	2,100 (14)	psi (MPa)	ASTM D638
Elongation @ Yield ²	12	%	ASTM D638
1% Secant Modulus ³	63,000 (440)	psi (MPa)	ASTM D790
2% Secant Modulus ³	55,000 (380)	psi (MPa)	ASTM D790
Vicat Softening Point	196 (91)	°F (°C)	ASTM D1525
Hardness, Shore D	57		ASTM D2240
Heat Deflection Temperature, 66 psi	113 (45)	°F (°C)	ASTM D648
Low Temperature Brittleness, F ₅₀ ⁴	< -105 (<-76)	°F (°C)	ASTM D746

¹ Measures the number on inches of flow produced when molten resin is injected into a long, spiral channel (0.625" insert), at a constant injection pressure of 1000 psi with a melt temperature of 440°F.

² Crosshead speed – 20 in/ min

³ Crosshead speed - 1/2 in/ min

⁴ Test method does not necessarily indicate the lowest temperature at which the material may be used.