

Microthene® MP564189

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

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. MP564189 meets the requirements of the Food and Drug Administration 21 CFR 177.1520. This regulation allows the use of this olefin polymer in " ...articles or components or articles intended for use in contact with food." Specific limitations or conditions of use may apply.

General Information			
Features	Food Contact Acceptable		
	Good Stiffness		
	Low Temperature Toughness		
Uses	Household Goods		
	Industrial Containers		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Powder		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Spiral Flow	32.1	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield ¹	14.0	MPa	
Break	8.00	MPa	
Tensile Elongation ² (Yield)	12	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% Secant	440	MPa	
2% Secant	380	MPa	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	45.0	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	91.0	°C	ASTM D1525
Extrusion	Nominal Value	Unit	

Cylinder Zone 1 Temp.	177	°C
Cylinder Zone 2 Temp.	190	°C
Cylinder Zone 3 Temp.	204	°C
Cylinder Zone 4 Temp.	204	°C

NOTE		
1.	510 mm/min	
2.	510 mm/min	
3.	13 mm/min	

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