Microthene® MP574189

Linear Low Density Polyethylene LyondellBasell Industries

Message:

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.

MP574189 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.

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first.

General Information					
Features	Food Contact Acceptable				
	Good Flow				
	Good Impact Resistance				
	Good Stiffness				
Uses	Closures				
	Containers				
	Household Goods				
	Lids				
	Medical/Healthcare Applications				
Agency Ratings	FDA 21 CFR 177.1520				
Forms	Powder				
Processing Method	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Density	0.926	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR) (190°C/2.1	6				
kg)	50	g/10 min	ASTM D1238		
Spiral Flow	45.5	cm	Internal Method		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D)	60		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength			ASTM D638		
Yield ¹	15.2	МРа			
Break	8.96	MPa			
Tensile Elongation ² (Yield)	11	%	ASTM D638		
Flexural Modulus ³			ASTM D790		
1% Secant	483	MPa			
2% Secant	421	MPa			
Thermal	Nominal Value	Unit	Test Method		

Deflection Temperature Under Load (0.45			
MPa, Unannealed)	47.2	°C	ASTM D648
Brittleness Temperature	-72.2	°C	ASTM D746
Vicat Softening Temperature	84.4	°C	ASTM D1525
Injection	Nominal Value	Unit	
Rear Temperature	177	°C	
Middle Temperature	191	°C	
Front Temperature	204	°C	
Nozzle Temperature	204	°C	
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	13 mm/min		

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