

Technical Data Sheet

Microthene MP574189

Linear Low Density Polyethylene

Product Description

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.

Market Rigid Packaging

Processing Method Injection Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	50	g/10 min	50	g/10 min	ASTM D1238
Density, (23 °C)	0.926	g/cm ³	0.926	g/cm ³	ASTM D1505
Spiral Flow	17.9	in	45.4	cm	LYB Method
Mechanical					
Flexural Modulus					
(1% Secant)	70000	psi	480	MPa	ASTM D790
(2% Secant)	61000	psi	420	MPa	ASTM D790
Tensile Strength at Break, (23 °C)	1300	psi	9	MPa	ASTM D638
Tensile Strength at Yield, (23 °C)	2200	psi	15	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	11	%	11	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	60		60		ASTM D2240
Thermal					
Vicat Softening Temperature	184	°F	84	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	-98	°F	-72	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	117	°F	47	°C	ASTM D648