

Technical Data Sheet

Microthene FN50100



Low Density Polyethylene

Product Description

Microthene F polyolefin powders are ultra-fine, spherically shaped particles with narrow size distribution suitable for use in a broad range of specialty applications. *Microthene* F powders combine the unique properties of a polyolefin resin with a microfine particle size.

Application	Automotive Parts; Colour Concentrates; Industrial; Interior Automotive Applications; Structural Parts
Market	Consumer Products; Flexible Packaging; Healthcare; Industrial, Building & Construction
Processing Method	Powders

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	22	g/10 min	22	g/10 min	ASTM D1238
Density, (23 °C)	0.915	g/cm ³	0.915	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus	31900	psi	220	MPa	ASTM D790
Tensile Strength at Break	1300	psi	9.0	MPa	ASTM D638
Tensile Elongation at Break	600	%	600	%	ASTM D638
Hardness					
Shore Hardness					
(Shore D, max)	50		50		ASTM D2240
(Shore D, 15 sec)	40		40		ASTM D2240
Thermal					
Vicat Softening Point	180.3	°F	82.4	°C	ASTM D1525
Low Temperature Brittleness	-67.0	°F	-55.0	°C	ASTM D746
Peak Melting Point	206.1	°F	102.4	°C	ASTM D3418
Additional Information					
Particle Shape	Spherical		Spherical		LYB Method
Average Particle Size	20	micron	20	micron	LYB Method
Particle Size Distribution	5 - 50	micron	5 - 50	micron	LYB Method
Moisture Content	<=0.1	%	<=0.1	%	LYB Method