

Microthene F

FN51000

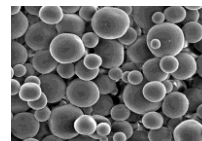
Low Density Polyethylene
Microfine Polyolefin Powder

Melt Index: 5.3 Density: 0.923



General 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.



Regulatory Status

FN51000 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

The microfine size and spherical shape of *Microthene F* powders facilitate dispersion in aqueous or organic systems. Specific suggestions can be made only when equipment, materials, process parameters and conditions of use are known.

Typical Properties

Polymer Property	Nominal Value	Units	Test Method
Melt Index	5.3	g/10 min	ASTM D1238
Density	0.923	g/cc	ASTM D1505
Vicat Softening Point	97.0 / 206.6	°C / °F	ASTM D1525
Peak Melting Point	110.0 / 230.0	°C / °F	ASTM D3418
Low Temperature Brittleness	-76.0 / -104.8	°C / °F	ASTM D746
Tensile Strength @ Break	12.4 / 1,800	MPa/psi	ASTM D638
Elongation @ Break	550	%	ASTM D638
Flexural Modulus	275.8 / 40,000	MPa/psi	ASTM D790
Hardness, Shore D	53		ASTM D2240
Powder Property			
Particle Shape	Spherical		
Average Particle Size	20	micron	ETM Malvern*
Particle Size Distribution	5 - 50	micron	ETM Malvern*
Maximum Moisture Content	0.1	%	ETM 156*

* ETM = Equistar Test Method

These are typical values not to be construed as specification limits.