

Technical Data Sheet

**Microthene FN51000**



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.

**Processing Method** Powders

**Application** Automotive Parts; Colour Concentrates; Industrial; Interior Automotive Applications; Structural Parts

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (190 °C/2.16 kg)	5.2	g/10 min	5.2	g/10 min	ASTM D1238
Density, (23 °C)	0.923	g/cm <sup>3</sup>	0.923	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Flexural Modulus	40000	psi	275.8	MPa	ASTM D790
Tensile Strength at Break	1800	psi	12.4	MPa	ASTM D638
Tensile Elongation at Break	550	%	550	%	ASTM D638
<b>Hardness</b>					
Shore Hardness, (Shore D)	53		53		ASTM D2240
<b>Thermal</b>					
Vicat Softening Point	206.6	°F	97.0	°C	ASTM D1525
Low Temperature Brittleness	<-105	°F	<-76	°C	ASTM D746
Peak Melting Point	230.0	°F	110.0	°C	ASTM D3418
<b>Additional Information</b>					
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