

Microthene® F FN51900

Low Density Polyethylene

LyondellBasell Industries

Message:

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.

General Information			
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.3	g/10 min	ASTM D1238
Average Particle Size	20	µm	ETM Malvern
Particle Shape	Spherical		
Particle Size Distribution	5.0 to 50.0	µm	ETM Malvern
Maximum Moisture Content	0.10	%	ETM 156
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	53		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	12.4	MPa	ASTM D638
Tensile Elongation (Break)	550	%	ASTM D638
Flexural Modulus	276	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-76.0	°C	ASTM D746
Vicat Softening Temperature	97.0	°C	ASTM D1525
Peak Melting Temperature	110	°C	ASTM D3418

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Recommended distributors for this material

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