

## Technical Data Sheet

### *Microthene* FE53200



Ethylene Vinyl Acetate

#### 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.

#### Regulatory Status

For regulatory compliance information, see *Microthene* FE53200 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<b>Application</b>	Automotive Parts; Colour Concentrates; Industrial; Interior Automotive Applications; Structural Parts
<b>Market</b>	Consumer Products; Flexible Packaging; Healthcare; Industrial, Building & Construction
<b>Processing Method</b>	Powders

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Equivalent Melt Index	8.0	g/10 min	8.0	g/10 min	ASTM D1238
Density, (23 °C)	0.926	g/cm <sup>3</sup>	0.926	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Flexural Modulus	13500	psi	93.1	MPa	ASTM D790
Tensile Strength at Break	1700	psi	11.7	MPa	ASTM D638
Tensile Elongation at Break	675	%	675	%	ASTM D638
<b>Hardness</b>					
Shore Hardness, (Shore D)	38		38		ASTM D2240
<b>Thermal</b>					
Vicat Softening Point	167.0	°F	75.0	°C	ASTM D1525
Low Temperature Brittleness	<-105	°F	<-76	°C	ASTM D746
Peak Melting Point	204.8	°F	96.0	°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

## Notes

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

## Processing Techniques

The microfine size and spherical shape of *Microthene* F powders facilitate dispersion in aqueous or organic systems.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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