

## Technical Data Sheet

### *Microthene* FA70000



High 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.

<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>					
Melt Flow Rate, (190 °C/2.16 kg)	10	g/10 min	10	g/10 min	ASTM D1238
Density, (23 °C)	0.952	g/cm <sup>3</sup>	0.952	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Flexural Modulus	160000	psi	1103	MPa	ASTM D790
Tensile Strength at Break	1700	psi	11.7	MPa	ASTM D638
Tensile Elongation at Break	400	%	400	%	ASTM D638
<b>Hardness</b>					
Shore Hardness, (Shore D)	66		66		ASTM D2240
<b>Thermal</b>					
Vicat Softening Point	257.0	°F	125.0	°C	ASTM D1525
Low Temperature Brittleness	<-105	°F	<-76	°C	ASTM D746
Peak Melting Point	273.2	°F	134.0	°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/>.

© LyondellBasell Industries Holdings, B.V. 2018

## Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

## Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.