Microthene® F FA70000

High Density Polyethylene

LyondellBasell Industries

Technical Data

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.	

General	
Material Status	• Commercial: Active
Literature [1]	• Processing - Mold Shrink (English) • Processing - Polyolefin Injection Molding Guide (English) • Technical Datasheet (English)
Search for UL Yellow Card	• LyondellBasell Industries
Availability	• North America
Agency Ratings	• FDA Food Contact, Unspecified Rating
Forms	• Powder

Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	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
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	11.7	MPa	ASTM D638
Tensile Elongation (Break)	400	%	ASTM D638
Flexural Modulus	1100	MPa	ASTM D790
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	66		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-76.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Peak Melting Temperature	134	°C	ASTM D3418
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Maximum Moisture Content	0.10	%	ETM 156

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.