

LyondellBasell Microthene® F FN50100 Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

Material Notes:

General 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. Materials may contain flow-enhancing agents as required for processing and handling. Contact your Equistar sales and/or technical service representative for more information and specific recommendations for your application. **Process Techniques** The microfine size and spherical shape of Microthene F powders facilitate dispersibility in aqueous or organic systems. Specific suggestions can be made only when equipment, materials, process parameters and conditions of use are known. Contact your Equistar technical representative for more information. **Regulatory Status** Microthene powders comply with certain Food and Drug Administration regulations, which may or may not permit their contact with food. Specific limitations or conditions of use may apply. Contact your Equistar Regulatory Affairs representative for more information. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Microthene-F-FN50100-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.9245 g/cc	0.03340 lb/in ³	ASTM D1505
Particle Size	5.0 - 50 Åµm	5.0 - 50 Åµm	Spherical shape, 5-50 micron distribution. ETM = Equistar Test Method; ETM Malvern
Maximum Moisture Content	0.10	0.10	ETM 156
Melt Flow	23 g/10 min	23 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ASTM D2240
Tensile Strength at Break	13.1 MPa	1900 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Flexural Modulus	0.310 GPa	45.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	114.5 Å°C	238.1 Å°F	ASTM D3418
Vicat Softening Point	92.0 Å°C	198 Å°F	ASTM D1525
Brittleness Temperature	-50.0 Å°C	-58.0 Å°F	ASTM D746

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