Microthene FN51000

LyondellBasell Industries - Low Density Polyethylene

General Information

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

Uses	• Automotive Applications • Automotive Interior Parts • Color Concentrates	• Construction Applications • Consumer Applications • Flexible Packaging	• Industrial Applications • Medical/Healthcare Applications • Structural Parts
Forms	• Powder		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (23°F)	0.923	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.2	g/10 min	ASTM D1238
Average Particle Size	0.79	mil	Internal Method
Moisture Content	< 0.10	%	Internal Method
Particle Shape	Spherical		Internal Method
Particle Size Distribution	0.2 to 2.0	mil	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	1800	psi	ASTM D638
Tensile Elongation (Break)	550	%	ASTM D638
Flexural Modulus	40000	psi	ASTM D790
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	53		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -105	°F	ASTM D746
Vicat Softening Temperature	207	°F	ASTM D1525
Peak Melting Temperature	230	°F	ASTM D3418