

Microthene FA70900

LyondellBasell Industries - High 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	<ul style="list-style-type: none"> Automotive Applications Automotive Interior Parts Color Concentrates 	<ul style="list-style-type: none"> Construction Applications Consumer Applications Flexible Packaging 	<ul style="list-style-type: none"> Industrial Applications Medical/Healthcare Applications Structural Parts
Forms	<ul style="list-style-type: none"> Powder 		

Properties¹

Physical	Nominal Value	Unit	Test Method
Density (23°F)	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	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)	1700	psi	ASTM D638
Tensile Elongation (Break)	400	%	ASTM D638
Flexural Modulus	160000	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -105	°F	ASTM D746
Vicat Softening Temperature	257	°F	ASTM D1525
Peak Melting Temperature	273	°F	ASTM D3418