

Technical Data Sheet

Microthene MN72200



Low Density Polyethylene

Product Description

Microthene G polyolefin powders are ground, irregularly-shaped particles for use in a broad range of specialty applications. *Microthene* G powders combine the unique properties of a polyolefin resin with a small ground particle size.

Application Automotive Parts; Colour Concentrates; Industrial; Interior Automotive Applications; Structural Parts

Market Consumer Products; Flexible Packaging; Healthcare; Industrial, Building & Construction

Processing Method Powders

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	3.7	g/10 min	3.7	g/10 min	ASTM D1238
Density, (23 °C)	0.923	g/cm ³	0.923	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus	47800	psi	330	MPa	ASTM D790
Tensile Strength at Break	1720	psi	11.8	MPa	ASTM D638
Tensile Elongation at Break	610	%	610	%	ASTM D638
Hardness					
Shore Hardness					
(Shore D, max)	56		56		ASTM D2240
(Shore D, 15 sec)	50		50		ASTM D2240
Thermal					
Vicat Softening Point	202.3	°F	94.6	°C	ASTM D1525
Low Temperature Brittleness	-90.6	°F	-68.1	°C	ASTM D746
Peak Melting Point	228.2	°F	109.0	°C	ASTM D3418
Additional Information					
Particle Shape	Irregular		Irregular		LYB Method
Average Particle Size	50	mesh	50	mesh	LYB Method