

Technical Data Sheet

Microthene MN71120

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.

Regulatory Status

For regulatory compliance information, see *Microthene* MN71120 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
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)	22	g/10 min	22	g/10 min	ASTM D1238
Density, (23 °C)	0.915	g/cm ³	0.915	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus	33000	psi	228	MPa	ASTM D790
Tensile Strength at Break	1350	psi	9.3	MPa	ASTM D638
Tensile Elongation at Break	610	%	610	%	ASTM D638
Hardness					
Shore Hardness					
(Shore D, max)	49		49		ASTM D2240
(Shore D, 15 sec)	43		43		ASTM D2240
Thermal					
Vicat Softening Point	177.8	°F	81.0	°C	ASTM D1525
Low Temperature Brittleness	-30.3	°F	-34.6	°C	ASTM D746
Peak Melting Point	216.9	°F	102.7	°C	ASTM D3418
Additional Information					
Particle Shape	Irregular		Irregular		LYB Method
Average Particle Size	35	mesh	35	mesh	LYB Method

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

The small size and irregular shape of *Microthene* G powders facilitate dispersion with other components.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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