

Technical Data Sheet

Microthene GR51100

Low Density Polyethylene



Product Description

GR 51100 polyolefin powders are ground, irregularly-shape particles for use in a broad range of specialty applications. GR 51100 powders combine the unique properties of a polyolefin resin with a small ground particle size.

Regulatory Status

For regulatory compliance information, see *Microthene* GR51100 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Forms	Powder
Appearance	Natural Color
Application	Automotive Applications; Colour Concentrates; Industrial Applications; Structural Parts

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	22	g/10 min	ASTM D1238
Density	0.915	g/cm ³	ASTM D1505
Mechanical			
Tensile Strength at Break	9.00	MPa	ASTM D638
Flexural Modulus	220	MPa	ASTM D790
Tensile Elongation at Break	600	%	ASTM D638
Impact			
Ductile/Brittle Transition Temperature	-55.0	°C	ASTM D746
Hardness			
Durometer Hardness, (Shore D)	50		ASTM D2240
Thermal			
Vicat Softening Temperature	82.4	°C	ASTM D1525
Peak Melting Temperature	102	°C	ASTM D3418
Additional Information			
Average Particle Size LYB Method			
Moisture Content LYB Method	<0.1	%	

Notes

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

Processing Techniques

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/>.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.