

Technical Data Sheet

**Microthene G MN72200**Low Density Polyethylene
LyondellBasell Industries**Product Description**

Microthene G polyolefin powders are ground, irregularly-shaped particles designed 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.

General

Material Status	• Commercial: Active
Availability	• North America
Forms	• Powder

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.923 g/cm ³	0.923 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.7 g/10 min	3.7 g/10 min	ASTM D1238
Average Particle Size	50 mesh	50 mesh	
Particle Shape	Irregular	Irregular	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	1710 psi	11.8 MPa	ASTM D638
Tensile Elongation (Break)	610 %	610 %	ASTM D638
Flexural Modulus	47900 psi	330 MPa	ASTM D790
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore D	56	56	
Shore D, 15 sec	50	50	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-90.6 °F	-68.1 °C	ASTM D746
Vicat Softening Temperature	202 °F	94.6 °C	ASTM D1525
Melting Temperature	228 °F	109 °C	

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

© LyondellBasell Industries Holdings, B.V. 2024

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.