

# Microthene GR51100

## LyondellBasell Industries - Low Density Polyethylene

### General Information

#### 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.

#### General

Uses	<ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Color Concentrates</li> </ul>	<ul style="list-style-type: none"> <li>Industrial Applications</li> <li>Structural Parts</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Natural Color</li> </ul>	
Forms	<ul style="list-style-type: none"> <li>Powder</li> </ul>	

### Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.915	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	22	g/10 min	ASTM D1238
Moisture Content	< 0.10	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1310	psi	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Flexural Modulus	31900	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-67.0	°F	ASTM D746
Vicat Softening Temperature	180	°F	ASTM D1525
Peak Melting Temperature	216	°F	ASTM D3418