

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.

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	<0.1	%	
LYB Method			