

Microthene GR52000

LyondellBasell Industries - Low Density Polyethylene

General Information

Product Description

GR52000 are use in a broad range of specialty applications. GR52000 powders combine the unique properties of a polyolefin resin with a small particle size.

General

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

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.2	g/10 min	ASTM D1238
Average Particle Size	4.5	mil	
Moisture Content	< 0.10	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1800	psi	ASTM D638
Tensile Elongation (Break)	550	%	ASTM D638
Flexural Modulus	40000	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	53		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -105	°F	ASTM D746
Vicat Softening Temperature	207	°F	ASTM D1525
Peak Melting Temperature	230	°F	ASTM D3418