Technical Data Sheet

Microthene GR71900

High Density Polyethylene

Product Description

GR71900 are use in a broad range of specialty applications. GR71900 powders combine the unique properties of a polyolefin resin with a small 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)	10	g/10 min	ASTM D1238
Density	0.952	g/cm³	ASTM D1505
Mechanical			
Tensile Strength at Break	11.7	MPa	ASTM D638
Flexural Modulus	1100	MPa	ASTM D790
Tensile Elongation at Break	400	%	ASTM D638
Impact			
Ductile/Brittle Transition Temperature	<-76.1	°C	ASTM D746
Hardness			
Durometer Hardness, (Shore D)	66		ASTM D2240
Thermal			
Vicat Softening Temperature	125	°C	ASTM D1525
Peak Melting Temperature	134	°C	ASTM D3418
Additional Information			
Average Particle Size			
LYB Method			
Moisture Content	<0.1	%	
LYB Method			

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/.

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