Technical Data Sheet

Microthene MN72700

Low Density Polyethylene

Product Description

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

Application	Automotive Parts; Colour Concentrates; Industrial; Interior Automotive Applications; Structural Parts
Market	Consumer Products; Flexible Packaging; Healthcare; Industrial, Building & Construction
Processing Method	Powders

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	24	g/10 min	24	g/10 min	ASTM D1238
Density, (23 °C)	0.922	g/cm³	0.922	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus	49600	psi	342	MPa	ASTM D790
Tensile Strength at Break	1220	psi	8.4	MPa	ASTM D638
Tensile Elongation at Break	110	%	110	%	ASTM D638
Hardness					
Shore Hardness					
(Shore D, max)	56		56		ASTM D2240
(Shore D, 15 sec)	49		49		ASTM D2240
Thermal					
Vicat Softening Point	187.5	°F	86.4	°C	ASTM D1525
Low Temperature Brittleness	-18.9	°F	-28.3	°C	ASTM D746
Peak Melting Point	229.3	°F	109.6	°C	ASTM D3418
Additional Information					
Particle Shape	Irregular		Irregular		LYB Method
Average Particle Size	16	mesh	16	mesh	LYB Method