

MIPELON™ XM-220

Mitsui Chemicals America, Inc. - *Ultra High Molecular Weight Polyethylene*
General Information
Product Description

MIPELON™ Fine Particle Ultra High Molecular Weight Polyethylene Powder (UHMWPE Powder)

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Abrasion Resistant	• Good Impact Resistance	• Self Lubricating
	• Chemical Resistant	• High Heat Resistance	
	• Dispersible	• Low Friction	
Uses	• Blending	• Compounding	• Filtration Media
Forms	• Powder		
Processing Method	• Compounding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ASTM D1505
Apparent (Bulk) Density	0.40	g/cm ³	ASTM D1895
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	6380	psi	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Coefficient of Friction	0.20		ASTM D1894
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	277	°F	DSC

Additional Information

Molecular Weight, ASTM D4020: 200E4

Average particle size, Coal tar counter method: 30 μm

Particle size distribution, Coal tar counter method:

~20μm: 10

20 to 30μm: 35

30 to 40μm: 35

40μm ~: 20

The value listed at Melting Point DSC, was tested in accordance with ASTM D2117.

