

# MIPELON™ XM-221U

Ultra High Molecular Weight Polyethylene

Mitsui Chemicals America, Inc.

## Message:

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

General Information			
Features	Low friction coefficient		
	Impact resistance, good		
	Dispersible		
	Good wear resistance		
	Good chemical resistance		
	Heat resistance, high		
	Self-lubricating		
Uses	Composite		
	Mixing		
	Filter material		
Forms	Powder		
Processing Method	Composite		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm <sup>3</sup>	ASTM D1505
Apparent Density	0.40	g/cm <sup>3</sup>	ASTM D1895
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	44.0	MPa	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Coefficient of Friction	0.20		ASTM D1894
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	136	°C	DSC
Additional Information			

Molecular Weight, ASTM D4020: 200E4Average particle size, Coal tar counter method: 25 μmParticle size distribution, Coal tar counter method:~20μm: 2020 to 30μm: 5530 to 40μm: 2040μm ~: 5The value listed at Melting Point DSC, was tested in accordance with ASTM D2117.

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Recommended distributors for this material

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