MIPELON™ PM-200

Ultra High Molecular Weight Polyethylene

Mitsui Chemicals, Inc.

Message:

MIPELON[™] is ultra-high molecular weight polyethylene in the form of fine powder developed by Mitsui Chemicals. While the average particle size of conventional ultra-high molecular weight polyethylene powder is 150 to 200 um, MIPELON[™] can be successfully reduced to fine particles with an average particle size of 10 to 30 um by our special polymerization technology, as well as retaining its high molecular weight. Features:

Abrasion resistance Easy dispersion properties Low water-absorption Food safety Applications: Modified resins and rubbers (compound) Self-lubricating materials (compound) Filters

General Information			
Features	Low friction coefficient		
	Impact resistance, good		
	Good wear resistance		
	Good chemical resistance		
	Low or no water absorption		
	Self-lubricating		
Uses	Composite		
	Filter		
	Mixing		
Forms	Powder		
Processing Method	Composite		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm³	Internal method
Apparent Density	0.30	g/cm³	ASTM D1895
Molecular Weight	1800000		Internal method
Average Particle Size ¹	10	μm	
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		
Thermal	Nominal Value	Unit	Test Method
Thermal Peak Melting Temperature	Nominal Value	Unit °C	Test Method ASTM D3418

NOTE

1.

Coulter Counter Method

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