

HI-ZEX MILLION™ 630M

High Molecular Weight Polyethylene

Mitsui Chemicals, Inc.

Message:

HI-ZEX MILLION™630M is a high molecular weight polyethylene material. This product is available in the Asia-Pacific region and is processed by extrusion, molding or plunger extrusion.

HI-ZEX MILLION™The main features of 630M are:

Impact resistance

accessible food

moisture resistance

chemical resistance

Wear-resistant

Typical application areas include:

engineering/industrial accessories

food contact applications

medical/health care

bag/lining

sheet

General Information	
Features	Impact resistance, high
	Good wear resistance
	Low temperature impact resistance
	Good chemical resistance
	Compliance of Food Exposure
	Low or no water absorption
	Self-lubricating
Uses	Films
	Lining
	Gear
	Conveyor accessories
	Washer
	Valve/valve components
	Non-specific food applications
	Industrial application
	Pipe fittings
	Roller
	Connector
	Agricultural application
	Sheet
	Sporting goods
	Fiber
	Repair Repair

Agency Ratings	FDA 21 CFR 177.1520(c) 2.2
Processing Method	Extrusion Molding Plunger press-out

Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ASTM D1505
Apparent Density	0.43	g/cm ³	ASTM D1895
Water Absorption (23°C, 24 hr)	< 0.010	%	ASTM D570
Average Molecular Weight	5.90E+6		Internal method
Average Particle Size	160	µm	Internal method
Taber Abrasion Resistance		mm ³	ASTM D1044
Dynstat Impact	62.0	kJ/m ²	Internal method
Sand Abrasion Wear - 1600rpm, 3h	3.0	mg	Internal method

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	40		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	39.0	MPa	ASTM D638
Tensile Elongation (Break)	260	%	ASTM D638
Flexural Modulus	390	MPa	ASTM D790
Coefficient of Friction	0.20		ASTM D1894

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	55.0	kJ/m ²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Peak Melting Temperature	136	°C	ASTM D3418
CLTE - Flow	1.5E-6	cm/cm/°C	ASTM D696
Thermal Conductivity	0.40	W/m/K	ASTM C177

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17 - 1.0E+18	ohms · cm	ASTM D257
Dielectric Strength	50	kV/mm	ASTM D149
Dielectric Constant	2.30		ASTM D150
Dissipation Factor	2.0E-4 - 3.0E-4		ASTM D150

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