HI-ZEX MILLION™ 340M

High Molecular Weight Polyethylene

Mitsui Chemicals, Inc.

Message:

HI-ZEX MILLION™340M 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 340M 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

	Medical/nursing supplies

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

Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm³	ASTM D1505
Apparent Density	0.46	g/cm³	ASTM D1895
Water Absorption (23°C, 24 hr)	< 0.010	%	ASTM D570
Average Molecular Weight	3.40E+6		Internal method
Average Particle Size	160	µm	Internal method
Taber Abrasion Resistance		mm³	ASTM D1044
Dynstat Impact	76.0	kJ/m²	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)	41.0	MPa	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Flexural Modulus	590	MPa	ASTM D790
Coefficient of Friction	0.20		ASTM D1894
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	80.0	kJ/m²	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

Recommended distributors for this material

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