

# HI-ZEX MILLION™ 320MU

High Molecular Weight Polyethylene

Mitsui Chemicals, Inc.

Message:

HI-ZEX MILLION™320MU 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 320MU 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<br>Molding<br>Plunger press-out |

| Physical                 | Nominal Value | Unit              | Test Method     |
|--------------------------|---------------|-------------------|-----------------|
| Density                  | 0.935         | g/cm <sup>3</sup> | ASTM D1505      |
| Apparent Density         | 0.42          | g/cm <sup>3</sup> | ASTM D1895      |
| Average Molecular Weight | 3.20E+6       |                   | Internal method |
| Average Particle Size    | 150           | μm                | Internal method |
| Dynstat Impact           | 80.0          | kJ/m <sup>2</sup> | Internal method |
| Sand Abrasion Wear - mg  | 3.00          | mg/g              | Internal method |
| Mechanical               | Nominal Value |                   | Test Method     |
| Coefficient of Friction  | 0.20          |                   | Internal method |

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#### Recommended distributors for this material

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