

LUBMER™ L3000

High Molecular Weight Polyethylene

Mitsui Chemicals America, Inc.

Message:

LUBMER™L3000 is a high molecular weight polyethylene material. This product is available in North America.

LUBMER™The main features of L3000 are:

flame retardant/rated flame

Good processability

Typical application areas include:

engineering/industrial accessories

Automotive Industry

General Information			
Features	Good formability		
	Good liquidity		
Uses	Gear		
	Car interior parts		
	Bearing		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.969	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 2.00mm	1.9	%	ASTM D955
Transverse flow: 2.00mm	1.4	%	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	55		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 23°C)	37.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C)	20	%	ASTM D638
Flexural Modulus ³ (23°C, 3.00mm, 48.0mm span)	1530	MPa	ASTM D790
Flexural Strength ⁴ (yield, 23°C, 3.00mm, 48.0mm span)	35.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 2.00 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	80.0	°C	ASTM D648
Vicat Softening Temperature	130	°C	ASTM D1525 ⁵
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength	44	kV/mm	ASTM D149
Dielectric Constant (23°C)	2.40		ASTM D150
Dissipation Factor (1 MHz)	1.5E-4		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94

Additional Information

Kinetic Coefficient of Friction, MCI Method, Lubmer-contact material, SUS 304, surface roughness, 6S: 0.11Heat generation temp, MCI Method, Lubmer-contact material, SUS 304, surface roughness, 6S: 76°C (30 MPa m/min)Critical PV value, MCI Method, Lubmer-contact material, SUS 304, surface roughness, 6S: >= 30 MPa m/minAbrasion Loss, MCI Method, Lubmer-contact material, SUS 304, surface roughness, 6S: 180E-10 cm³/kg-mVolume Resistivity, ASTM D257: 1E17 to 1E18 ohm-cmDissipation Factor, ASTM D150, 1MHz: 1E-4 to 2E-4Spiral Flow, MCI method, 4.8mm radius: 42cm (270°C)The values listed as Mold Shrink, Linear Flow and Trans, ASTM D955, were tested in accordance with MCI methods.

NOTE

- | | |
|----|------------------|
| 1. | Type 5, 50mm/min |
| 2. | Type 5, 50mm/min |
| 3. | 5.0 mm/min |
| 4. | 5.0 mm/min |
| 5. | 压力1 (10N) |

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