


MITSUI CHEMICALS, INC.
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LUBMER™ L3000,L4000,L5000 Physical Properties

Property	Unit	Testing Method	Condition	L3000	L4000	L5000
MFR	g/10min	JIS K7210	190°C Load 10kgf	15	6	2
Density	kg/m ³	ASTM D1505	-	969	967	966
Tensile Strength at Break	MPa	ASTM D638	50mm/min, Type4 dumbbell	37	41	47
Elongation at Break	%	ASTM D638	50mm/min, Type4 dumbbell	20	12	10
Flexural Strength	MPa	ASTM D790	5mm/min, thickness 3mm	35	37	38
Initial flexural modulus	MPa	ASTM D790	5mm/min, thickness 3mm	1530	1590	1620
Izod Impact Strength	J/m	ASTM D256	2mm thick, notched	162	185	194
Rockwell Hardness	-	ASTM D785	R scale	55	53	51
Kinetic Coefficient of Friction	-	MCI Method P=0.74MPa, V=12m/min	contact material, SUS 304 Surface roughness: 6S	0.11	0.10	0.09
Abrasion Loss	10 ⁻¹⁰ cm ³ /kg·m	MCI Method P=0.3MPa, 168h	contact material, SUS 304 Surface roughness: 6S	180	160	150
Vicat Softening Point	°C	ASTM D1525	Press.=1kg	130	130	130
Heat Distortion Temp.	°C	ASTM D648	0.45MPa	80	80	80
Spiral Flow	cm	MCI Method	4.8 mm φ radius, 270 deg.C	42	36	30
Water Absorption	%	ASTM D570	24hr, immersion	0.01	0.01	0.01

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Performance Polymers Div.

TPX·MILLION Dept.