


MITSUI CHEMICALS, INC.
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LUBMER™ TM-80B Physical Properties

Property	Unit	Testing Method	Condition	TM-80B
MFR	g/10min	JIS K7210	190°C Load 10kgf	11
Density	kg/m ³	ASTM D1505	-	971
Tensile Strength at Break	MPa	ASTM D638	50mm/min, Type4 dumbbell	37
Elongation at Break	%	ASTM D638	50mm/min, Type4 dumbbell	20
Flexural Strength	MPa	ASTM D790	5mm/min, thickness 3mm	35
Initial flexural modulus	MPa	ASTM D790	5mm/min, thickness 3mm	1530
Izod Impact Strength	J/m	ASTM D256	2mm thick, notched	162
Rockwell Hardness	-	ASTM D785	R scale	55
Kinetic Coefficient of Friction	-	MCI Method P=0.74MPa, V=12m/min	contact material, SUS 304 Surface roughness: 6S	0.11
Abrasion Loss	10 ⁻¹⁰ cm ³ /kg·m	MCI Method P=0.3MPa, 168h	contact material, SUS 304 Surface roughness: 6S	180
Vicat Softening Point	°C	ASTM D1525	Press.=1kg	130
Heat Distortion Temp.	°C	ASTM D648	0.45MPa	80
Spiral Flow	cm	MCI Method	4.8 mm φ radius, 270 deg.C	42
Water Absorption	%	ASTM D570	24hr, immersion	< 0.03

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MITSUI CHEMICALS, INC.,

Performance Polymers Div.

TPX·MILLION Dept.