

## DURACON® POM General Properties(ISO)

Item	Unit	Test Method	Standard
			M90-44
			Standard
Color No.			CF2001/CD3068
ISO Marking Code		ISO11469 (JIS K6999)	>POM<
Density	g/cm <sup>3</sup>	ISO 1183	1.41
Water absorption (23°C,24hrs,1mmt)	%	ISO 62	0.5
MFR (190°C · 2.16kg)	g/10min	ISO 1133	9
MVR (190°C, 2.16kg)	cm <sup>3</sup> /10min	ISO 1133	8
Tensile strength	MPa	ISO 527-1,2	62
Strain at break	%	ISO 527-1,2	35 *1
Tensile modulus	MPa	ISO 527-1,2	2,700
Flexural strength	MPa	ISO 178	87
Flexural modulus	MPa	ISO 178	2,500
Charpy notched impact strength (23°C)	kJ/m <sup>2</sup>	ISO 179/1eA	6.0
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	95
Coefficient of linear thermal expansion (23 - 55°C · Flow direction)	x10 <sup>-5</sup> /°C	Our standard	12
Coefficient of linear thermal expansion (23 - 55°C · Transverse direction)	x10 <sup>-5</sup> /°C	Our standard	12
Electric strength (3mmt)	kV/mm	IEC 60243-1	19
Volume resistivity	Ω·cm	IEC 60093	1 x 10 <sup>14</sup>
Surface resistivity	Ω	IEC 60093	1 x 10 <sup>16</sup>
Volume resistivity (Our standard)	Ω·cm		-
Surface resistivity (Our standard)	Ω		-
Mold Shrinkage (60×60×2mmt, Flow direction)	%	ISO 294-4	2.0
Mold Shrinkage (60×60×2mmt, Transverse direction)	%	ISO 294-4	2.0
Rockwell hardness	M(Scale)	ISO2039-2	80
Specific wear amount (Thrust, vs C-Steel, material side, pressure 0.49MPa, 30cm/s)	x10 <sup>-3</sup> mm <sup>3</sup> /(N·km)	JIS K7218	0.65
Specific wear amount (Thrust, vs C-Steel, steel side, pressure 0.49MPa, 30cm/s)	x10 <sup>-3</sup> mm <sup>3</sup> /(N·km)	JIS K7218	< 0.01
Coefficient of Dynamic Friction (Thrust, vs C-Steel, pressure 0.49MPa, 30cm/s)		JIS K7218	0.46
Specific wear amount (Thrust, vs C-Steel, material side, pressure 0.98MPa, 30cm/s)	x10 <sup>-3</sup> mm <sup>3</sup> /(N·km)	JIS K7218	0.30
Specific wear amount (Thrust, vs C-Steel, steel side, pressure 0.98MPa, 30cm/s)	x10 <sup>-3</sup> mm <sup>3</sup> /(N·km)	JIS K7218	< 0.01
Coefficient of Dynamic Friction (Thrust, vs C-Steel, pressure 0.98MPa, 30cm/s)		JIS K7218	0.40
Specific wear amount (Thrust, vs M90-44, material side, pressure 0.06MPa, 15cm/s)	x10 <sup>-3</sup> mm <sup>3</sup> /(N·km)	JIS K7218	-
Specific wear amount (Thrust, vs M90-44, M90-44 side, pressure 0.06MPa, 15cm/s)	x10 <sup>-3</sup> mm <sup>3</sup> /(N·km)	JIS K7218	-
Coefficient of Dynamic Friction (Thrust, vs M90-44, pressure 0.06MPa, 15cm/s)		JIS K7218	0.37
Flammability		UL94	HB
The yellow card File No.			E45034
Appropriate List number of Ministerial Ordinance for Export Trade Control			Item 16 of Appendix -1

\*1) Nominal strain at break

All figures in the table are the typical values of the material and not the minimum values of the material specifications. All

data shown here are not always applicable to parts used under different conditions. We do not guarantee that these data are directly applicable to the application conditions of users and we ask each user to make his own decision on the application. For safe handling of materials we supply, it is advised to refer to the Material Safety Data Sheet "SDS" of the proper material. This brochure is edited based on reference literatures, information and data currently available to us. So the contents of this brochure are subject to change without notice due to new data.

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