DURACON[®] POM Grade Catalog



Polyacetal (POM)

H140-54C	
CF2001	
Special	

POLYPLASTICS CO., LTD.

table1-1 General Properties (ISO)			
Unit	Test Method	Special	
		H140-54C	
		High Strength, Fuel Resistant	
		CF2001	
	ISO11469 (JIS K6999)	>POM<	
g/cm ³	ISO 1183	1.42	
%	ISO 62	0.5	
g/10min	ISO 1133	14	
cm ³ /10min	ISO 1133	12	
МРа	ISO 527-1,2	71	
%	ISO 527-1,2	30 ^{*1}	
MPa	ISO 527-1,2	2,900	
MPa	ISO 178	95	
MPa	ISO 178	2,800	
kJ/m ²	ISO 179/1eA	6.0	
°C	ISO 75-1,2	100	
x10⁻⁵/℃	Our standard	10	
x10⁻⁵/℃	Our standard	10	
kV/mm	IEC 60243-1	21	
Ω·cm	IEC 60093	1 × 10 ¹⁵	
Ω	IEC 60093	7 × 10 ¹⁵	
Ω·cm		-	
Ω		-	
%	ISO 294-4	2.2	
%	ISO 294-4	2.3	
M(Scale)	ISO2039-2	94	
x10 ⁻³ mm ³ /(N·km)	JIS K7218	1.23	
x10 ⁻³ mm ³ /(N·km)	JIS K7218	0.01>	
	JIS K7218	0.48	
	Unit Unit g/cm ³ % g/10min cm ³ /10min MPa % MPa MPa MPa MPa MPa MPa MPa kJ/m ² °C x10 ⁻⁵ /°C x10 ⁻⁵ /°C	Unit Test Method ISO11469 (JIS K6999) g/cm³ ISO1183 % ISO 1183 % ISO 1133 (min) ISO 1133 cm³/10min ISO 1133 MPa ISO 527-1,2 MPa ISO 527-1,2 MPa ISO 527-1,2 MPa ISO 178 MPa ISO 178 MPa ISO 178 KJ/m² ISO 179/1eA °C ISO 75-1,2 X10°5/°C Our standard kV/mm IEC 60243-1 Ω·cm IEC 60093 Ω·cm IEC 60093 Ω·cm ISO 294-4 % ISO 294-4 % ISO 294-4 % ISO 294-4 % ISO 2039-2 x10°3mm³/(N·km) JIS K7218	

table1-1 General Properties (ISO)

Item	Unit	Test Method	Special
			H140-54C
			High Strength, Fuel Resistant
Specific wear amount (Thrust, vs C-Steel, material side, pressure 0.98MPa, 30cm/s)	x10 ⁻³ mm³/(N·km)	JIS K7218	0.83
Specific wear amount (Thrust, vs C-Steel, steel side, pressure 0.98MPa, 30cm/s)	x10 ⁻³ mm ³ /(N · km)	JIS K7218	0.01>
Coefficient of Dynamic Friction (Thrust, vs C- Steel, pressure 0.98MPa, 30cm/s)		JIS K7218	0.38
Specific wear amount (Thrust, vs M90-44, material side, pressure 0.06MPa, 15cm/s)	x10 ⁻³ mm ³ /(N · km)	JIS K7218	80.9
Specific wear amount (Thrust, vs M90-44, M90- 44 side, pressure 0.06MPa, 15cm/s)	x10 ⁻³ mm ³ /(N · km)	JIS K7218	56.8
Coefficient of Dynamic Friction (Thrust, vs M90- 44, pressure0.06MPa, 15cm/s)		JIS K7218	0.37
Flammability		UL94	-
The yellow card File No.			-
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.

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NOTES TO USERS

- All property values shown in this brochure are the typical values obtained under conditions prescribed by applicable standards and test methods.
- This brochure has been prepared based on our own experiences and laboratory test data, and therefore 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.
- It is the users' responsibility to investigate patent rights, service life and potentiality of applications introduced in this brochure.
 Materials we supply are not intended for the implant applications in the medical and dental fields, and therefore are not recommended for such uses.
- For all works done properly, it is advised to refer to appropriate technical catalogs for specific material processing.
- For safe handling of materials we supply, it is advised to refer to the Safety Data Sheet "SDS" of the proper material.
- This brochure is edited based on reference literature, information and data available to us at the time of creation. The contents of this brochure are subject to change without notice upon achievement of new data.
- Please contact our office for any questions about products we supply, descriptive literatures or any description in this brochure.

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