

PPS(Polyphenylene Sulfide)

FORTRON®

7140A4

HD9000

(Special grade)

NOTES TO USERS

- All property values shown in this brochure are the typical values obtained under varying conditions prescribed by applicable standards and test method.
- 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 the appropriate **"Technical Catalog"** for specific material processing.
- For safe handling of materials we supply, it is advised to refer to the Material Safety Data Sheet **"MSDS"** 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.
- Please contact our office for any questions about products we supply, descriptive literatures or any description in this brochure.

* **"FORTRON®"** is a registered trademark of Kureha Chemical Industry in Japan and other countries, and is a trademark used by Polyplastics Co with the owner's consent.

General Properties of 7140A4

table1-1 General Properties (ISO)

Item	Unit	Test Method	Special
			7140A4
			Conductive, Low Wear
Color			HD9000
ISO(JIS)quality-of-the-material display:		ISO11469 (JIS K6999)	>PPS+PTFE-CF30<
Density	g/cm ³	ISO 1183	1.49
Water absorption (23°C,24hrs)	%	ISO 62	0.04
Melt viscosity (310°C,1000/sec)	Pa·s	ISO 11443	280
Tensile strength	MPa	ISO 527-1,2	180
Strain at break	%	ISO 527-1,2	1.1
Flexural strength	MPa	ISO 178	270
Flexural modulus	MPa	ISO 178	22,800
Charpy impact strength (notched)	kJ/m ²	ISO 179/1eA	4.5
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	270
Coefficient of linear thermal expansion (Normal temperature, Flow direction)	x10 ⁻⁵ /°C	ISO 11359-2	1
Coefficient of linear thermal expansion (Normal temperature, Transverse direction)	x10 ⁻⁵ /°C	ISO 11359-2	4
Dielectric breakdown strength (3mmt)	kV/mm	IEC 60243-1	-
Volume resistivity	Ω·cm	IEC 60093	8 × 10 ²
Volume resistivity (Our standard)	Ω·cm	-	-
Dielectric constant (1kHz)		IEC 60250	-
Dielectric constant (1MHz)		IEC 60250	-
Dielectric dissipation factor (1kHz)		IEC 60250	-
Dielectric dissipation factor (1MHz)		IEC 60250	-
Tracking resistance (CTI)	V	IEC 60112	-
Arc resistance	s		-
Flammability		UL94	V-0
The yellow card File No.			E109088
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.

Polyplastics

POLYPLASTICS CO., LTD.

JR Shinagawa East Building
18-1, Konan 2-chome, Minato-ku, Tokyo 108-8280 Japan
Phone: 81-3-6711-8600

- *Affiliates*

Polyplastics Asia Pacific Sdn. Bhd.(Kuala Lumpur)
Polyplastics Asia Pacific Singapore Pte.Ltd.(Singapore)
Polyplastics Marketing (T) Ltd.(Bangkok)
Polyplastics China Limited (Hong Kong)
Polyplastics (Shanghai) Ltd.(Shanghai)
Polyplastics Trading (Shanghai) Ltd.(Shanghai)
Polyplastics Taiwan Co., Ltd.(Taipei)
PTM Engineering Plastics (Nantong) Co., Ltd.(Nantong)