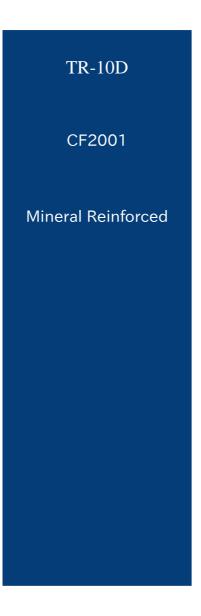
DURACON<sup>®</sup> POM Grade Catalog



# Polyacetal (POM)



POLYPLASTICS CO., LTD.

table1-1 General Properties (ISO)			
Unit	Test Method	Mineral Reinforced	
		TR-10D	
		High Rigidity, Low Warpage	
		CF2001	
	ISO11469 (JIS K6999)	>POM-TD10<	
g/cm <sup>3</sup>	ISO 1183	1.48	
%	ISO 62	0.5	
g/10min	ISO 1133	39	
cm <sup>3</sup> /10min	ISO 1133	31	
MPa	ISO 527-1,2	57	
%	ISO 527-1,2	5.0	
MPa	ISO 527-1,2	3,700	
MPa	ISO 178	90	
MPa	ISO 178	3,500	
kJ/m <sup>2</sup>	ISO 179/1eA	3.3	
°C	ISO 75-1,2	112	
<b>x10⁻⁵/°</b> C	Our standard	9	
<b>x10⁻⁵/°</b> C	Our standard	9	
kV/mm	IEC 60243-1	-	
Ω∙cm	IEC 60093	3 × 10 <sup>14</sup>	
Ω	IEC 60093	2 × 10 <sup>16</sup>	
Ω∙cm		-	
Ω		-	
%	ISO 294-4	1.8	
%	ISO 294-4	1.8	
M(Scale)	ISO2039-2	90	
x10 <sup>-3</sup> mm <sup>3</sup> /(N·km)	JIS K7218	25	
x10 <sup>-3</sup> mm <sup>3</sup> /(N·km)	JIS K7218	0.10	
	JIS K7218	0.44	
	Unit Unit g/cm <sup>3</sup> % g/10min cm <sup>3</sup> /10min MPa % MPa MPa MPa MPa MPa MPa MPa MPa	Unit     Test Method       ISO11469 (JIS K6999)       g/cm³     ISO1183       %     ISO 1183       %     ISO 1133       %     ISO 1133       cm³/10min     ISO 1133       MPa     ISO 527-1,2       MPa     ISO 527-1,2       MPa     ISO 527-1,2       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	Mineral Reinforced
			TR-10D
			High Rigidity, Low Warpage
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	-
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	-
Coefficient of Dynamic Friction (Thrust, vs C- Steel, pressure 0.98MPa, 30cm/s)		JIS K7218	-
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	5.0
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	80
Coefficient of Dynamic Friction (Thrust, vs M90- 44, pressure0.06MPa, 15cm/s)		JIS K7218	0.40
Flammability		UL94	HB
The yellow card File No.			E45034
Appropriate List number of Ministerial Ordinance for Export Trade Control			Item 16 of Appendix -1

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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