DURACON® POM

Grade Catalog

Polyacetal (POM)

DURACON®

TR-20LV

CF2001

Low VOC

POLYPLASTICS CO., LTD.

General Properties of TR-20LV

table1-1 General Properties (ISO)

table1-1 General Properties (ISO)					
Item	Unit	Test Method	Low VOC		
			TR-20LV		
			Mineral Reinforced		
Color			CF2001		
ISO(JIS)quality-of-the-material display:		ISO11469 (JIS K6999)	>POM-TD15<		
Density	g/cm³	ISO 1183	1.53		
Water absorption (23°C,24hrs,1mmt)	%	ISO 62	0.5		
MFR (190℃、2.16kg)	g/10min	ISO 1133	22		
MVR (190℃, 2.16kg)	cm ³ /10min	ISO 1133	17		
Tensile strength	MPa	ISO 527-1,2	55		
Strain at break	%	ISO 527-1,2	8.0		
Tensile modulus	MPa	ISO 527-1,2	4,250		
Flexural strength	MPa	ISO 178	90		
Flexural modulus	MPa	ISO 178	3,900		
Charpy notched impact strength (23°C)	kJ/m²	ISO 179/1eA	3.0		
Temperature of deflection under load (1.8MPa)	$^{\circ}$ C	ISO 75-1,2	123		
Coefficient of linear thermal expansion (23 - 55°C、Flow direction)	x10 ⁻⁵ /°C	Our standard	8		
Coefficient of linear thermal expansion (23 - 55°C、Transverse direction)	x10 ⁻⁵ /°C	Our standard	8		
Electric strength (3mmt)	kV/mm	IEC 60243-1	-		
Volume resistivity	Ω·cm	IEC 60093	-		
Surface resistivity	Ω	IEC 60093	-		
Volume resistivity (Our standard)	Ω·cm		-		
Surface resistivity (Our standard)	Ω		-		
Mold Shrinkage (60×60×2mmt, Flow direction, Cavity Pressure 60 MPa)	%	ISO 294-4	1.8		
Mold Shrinkage (60×60×2mmt, Transverse direction, Cavity Pressure 60 MPa)	%	ISO 294-4	1.7		
Rockwell hardness	M(Scale)	ISO2039-2	75		
Specific wear amount (Thrust, vs C-Steel, material side, pressure 0.49MPa, 30cm/s)	x10 ⁻³ mm ³ /(N·km)	JIS K7218	30		
Specific wear amount (Thrust, vs C-Steel, steel side, pressure 0.49MPa, 30cm/s)	x10 ⁻³ mm ³ /(N·km)	JIS K7218	0.10		
Coefficient of Dynamic Friction (Thrust, vs C-Steel, pressure 0.49MPa, 30cm/s)		JIS K7218	0.50		
Specific wear amount (Thrust, vs C-Steel, material side, pressure 0.98MPa, 30cm/s)	x10 ⁻³ mm ³ /(N·km)	JIS K7218	-		

Item	Unit	Test Method	Low VOC
			TR-20LV
			Mineral Reinforced
Specific wear amount (Thrust, vs C-Steel, steel side, pressure 0.98MPa, 30cm/s)	x10 ⁻³ mm ³ /(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 ⁻³ mm ³ /(N·km)	JIS K7218	5.0
Specific wear amount (Thrust, vs M90-44, M90-44 side, pressure 0.06MPa, 15cm/s)	x10 ⁻³ mm ³ /(N·km)	JIS K7218	90
Coefficient of Dynamic Friction (Thrust, vs M90-44, pressure0.06MPa, 15cm/s)		JIS K7218	0.40
Flammability		UL94	НВ
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.



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.

 $\hbox{DURACON} \hbox{$\mathbb{R}$ is a registered trademark of Polyplastics Co., Ltd. in Japan and other countries.} \\$

POLYPLASTICS CO., LTD.

JR Shinagawa East Bidg.,

18-1, Konan 2-chome, Minato-ku, Tokyo, 108-8280 Japan

Tel: +81-3-6711-8610 Fax: +81-3-6711-8618

http://www.polyplastics.com/en/