Cyclic Olefin Copolymer (COC)

TOPAS®

8007S-04

Standard

POLYPLASTICS CO., LTD.

General Properties of 8007S-04

table1-1 General Properties（ISO）

Item	Unit	Test Method	Standard
			8007S-04
Color			-
ISO(JIS)quality-of-the-material display:		ISO11469 (JIS K6999)	>COC<
Density	Kg/m^3	ISO 1183	1,010
Water absorption (23°C, sat.)	%	ISO 62	0.01
MVR (260℃, 2.16kg)	$cm^3/10min$	ISO 1133	32
Tensile modulus (1mm/min)	MPa	ISO 527-2/1A	2,600
Tensile stress at break (5mm/min)	MPa	ISO 527-2/1A	63
Tensile strain at break (5mm/min)	%	ISO 527-2/1A	4.5
Charpy impact strength (unnotched)	kJ/m^2	ISO 179/1eU	20
Charpy notched impact strength (23℃)	kJ/m^2	ISO 179/1eA	2.6
Glass transition temperature (10℃/min)	℃	ISO 11357-1,-2,-3	78
Temperature of deflection under load (0.45MPa)	℃	ISO 75-1,2	75
Vicat softening temperature (50℃/h 50N)	℃	ISO 306	80
Relative permittivity at 1-10 kHz		IEC 60250	2.35
Volume resistivity	Ω·cm	IEC 60093	1×10^{14}<
Tracking resistance (CTI)	V	IEC 60112	600<
Light transmittance (2mmt)	%	ISO 13468-1	91
Refractive index		ISO 489	1.53
Flammability		UL94	HB
The yellow card File No.			E177491
Appropriate List number of Ministerial Ordinance for Export Trade Control			-

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

Polyplastics

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.

Polyplastics Co., Ltd.
TOPAS Business Development Department

JR Shinagawa East Bldg.
18-1 Konan 2-chome, Minato-ku Tokyo 108-8280

Tel.: +81-3-6711-8615
Fax: +81-3-6711-8618
eMail: topas.info@polyplastics.com

www.polyplastics.com

Topas Advanced Polymers, Inc.
7300 Turfway Road, Florence, KY 41042 USA

Tel.: +1-859-746-6447
eMail: info@topas-us.com

www.topas.com

Topas Advanced Polymers GmbH
Paulistrasse 3, 65929 Frankfurt am Main, Germany

Tel.: +49-1805-186727
eMail: info@topas.com

www.topas.com

(R190507-2009)