

Cyclic Olefin Copolymer (COC)

TOPAS®

6013L-17

(Optical grade)

POLYPLASTICS CO., LTD.



General Properties of 6013L-17

table1-1 General Properties (ISO)

Item	Unit	Test Method	Optical
			6013L-17
			Lenz
Color			-
ISO(JIS)quality-of-the-material display:		ISO11469 (JIS K6999)	>COC<
Density	Kg/m ³	ISO 1183	1,020
Water absorption (23°C, sat)	%	ISO 62	0.01
MVR (260°C, 2.16kg)	cm ³ /10min	ISO 1133	14
Tensile modulus (1mm/min)	MPa	ISO 527-2/1A	2,900
Tensile stress at break (5mm/min)	MPa	ISO 527-2/1A	63
Tensile strain at break (5mm/min)	%	ISO 527-2/1A	2.8
Charpy impact strength (notched)	kJ/m ²	ISO 179/1eA	2.0
Charpy impact strength (unnotched)	kJ/m ²	ISO 179/1eU	15
Glass transition temperature (10°C/min)	°C	ISO 11357- 1,-2,-3	140
Temperature of deflection under load (0.45MPa)	°C	ISO 75-1,2	130
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.



NOTES TO USERS

- All property values shown in this brochure are the typical values obtained under varying 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 the appropriate "Technical Catalog" 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 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.

TOPAS® is a registered trademark of TOPAS Advanced Polymers GmbH in Germany, the United States, and other countries.

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

(R140627-2305)

