**LAPEROS® LCP**Grade Catalog

**Liquid Crystal Polymer (LCP)** 

## **LAPEROS**®

A150

VF2001

High Strength, High Toughness

POLYPLASTICS CO., LTD.

## General Properties of A150

table1-1 General Properties (ISO)

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Unit	Test Method	High Strength, High Toughness			
		A150			
		High Stiffness			
1		VF2001			
	ISO11469 (JIS K6999)	>LCP-GF50<			
g/cm³	ISO 1183	1.81			
%	ISO 62	0.02			
MPa	ASTM D638	180			
%	ASTM D638	1.5			
MPa	ISO 178	260			
MPa	ISO 178	20,500			
%	ISO 178	1.8			
kJ/m²	ISO 179/1eA	12			
$^{\circ}$ C	ISO 75-1,2	240			
$^{\circ}$ C	ISO 75-1,2	-			
kV/mm	IEC 60243-1	44			
kV/mm	IEC 60243-1	28			
Ω·cm	IEC 60093	1 × 10 <sup>16</sup>			
Ω·cm		-			
	IEC 60250	4.5			
	IEC 60250	4.1			
	IEC 60250	0.02			
	IEC 60250	0.02			
V	IEC 60112	200			
S	ASTM D495	180			
%	Our standard	0.11			
%	Our standard	0.40			
%	Our standard	-			
%	Our standard	-			
M(Scale)	ISO2039-2	90			
	UL94	V-0			
		E106764			
	Unit  g/cm³ % MPa % MPa MPa % kJ/m² ℃ ℃ kV/mm kV/mm Q·cm Q·cm  V s %	Unit Test Method    ISO11469 (JIS K6999)     ISO 1183			

Item	Unit	Test Method	High Strength, High Toughness
			A150
			High Stiffness
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.

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## 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/