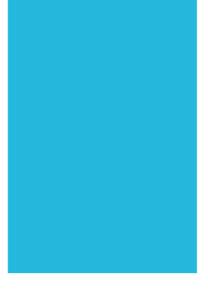
DURANEX®Grade Series



PBT(Polybutylene terephthalate)

DURANEX[®]

733LD

ED3002/EF2001

(Low warpage, LD Series grade)

WinTech Polymer Ltd.

NOTES TO USERS

- All property values shown in this brochure are the typical values obtained under varying conditions prescribed by applicable standards and test method.
- This brochure has been prepared based on our own experiences and laboratry 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 Material Safety Data Sheet "MSDS" 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.

* **"DURANEX**[®]**"** is a registered trademark of Polyplastics Co., Ltd in Japan and other countries, under license to WinTech Polymer Ltd.

* WinTech Polymer Ltd. is a member of the Polyplastics Group, while the "DURANEX_®" PBT resin manufactured and sold by that firm is marketed by Polyplastics affiliated companies.

table 1-1 General Properties (ISO)				
			Low warpage, LD Series	
Item	Unit	Test Method	733LD	
			GF30% reinforced, Hydrolysis resistance	
Color			ED3002/EF2001	
ISO(JIS)quality-of-the-material display:		ISO11469 (JIS K6999)	>PBT+SAN-GF30<	
Density	g/cm³	ISO 1183	1.46	
Tensile strength	MPa	ISO 527-1,2	139	
Strain at break	%	ISO 527-1,2	2	
Flexural strength	MPa	ISO 178	180	
Flexural modulus	MPa	ISO 178	9000	
Charpy impact strength (notched)	kJ/m²	ISO 179/1eA	7.8	
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	195	
Coefficient of linear thermal expansion (23 \sim 55 $^{\circ}$ C、 Flow direction)	x10⁻⁵/°C	ISO 11359-2	2	
Coefficient of linear thermal expansion (23 \sim 55 $^{\circ}$ C、Transverse direction)	x10⁻⁵/°C	ISO 11359-2	8	
Dielectric breakdown strength (3mmt)	kV/mm	IEC 60243-1	26	
Volume resistivity	Ω∙cm	IEC 60093	2 × 10 ¹⁶	
Tracking resistance (CTI)	V	IEC 60112	-	
Flammability		UL94	HB	
The yellow card File No.			E213445	
Appropriate List number of Ministerial Ordinance for Export Trade Control %1) Nominal strain at break			Item 16 of Appendix -1	

table1-1 General Properties (ISO)

※1) Nominal strain at break

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

Item	Unit	Test Method	Low warpage, LD
			Series 733LD
			GF30% reinforced, Hydrolysis resistance
Color			ED3002/EF2001
ISO(JIS)quality-of-the-material display:	ISO11469 (JIS K6999)	>PBT+SAN-GF30<	
Specific gravity		ASTM D792	1.46
Tensile strength	MPa	ASTM D638	139
Tensile elongation	%	ASTM D638	2
Flexural strength	MPa	ASTM D790	180
Flexural modulus	MPa	ASTM D790	9000
Izod impact strength (Reversed notch side)	J/m	ASTM D256	400
Izod impact strength (Notch side, 1/4")	J/m	ASTM D256	86
Izod impact strength (Notch side, 1/8")	J/m	ASTM D256	-
Temperature of deflection under load (1.82MPa)	°C	ASTM D648	200
Coefficient of linear thermal expansion (room temperature, Flow direction)	x10⁻⁵/° C	ASTM D696	-
Coefficient of linear thermal expansion (room temperature, Transverse direction)	x10⁻⁵/°C	ASTM D696	-
Volume resistivity (Thickness 3mm)	Ω·cm	ASTM D257	-
Dielectric breakdown strength (Short-time test:1mmt)	MV/m	ASTM D149	-
Dielectric breakdown strength (Short-time test:2mmt)	MV/m	ASTM D149	-
Arc resistance	S	ASTM D495	-
Tracking resistance (CTI)		ADTM D3638	-
Flammability		UL94	HB
The yellow card File No.			E213445
Appropriate List number of Ministerial Ordinance for Export Trade Control			Item 16 of Appendix -1

table1-1 General Properties (ASTM)

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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