

PBT(Polybutylene terephthalate)

DURANEX®

CN7030NN/BB

(Flame Retardant,
Standard, UL Approved
Regrind 50% Inclusive
grade)

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 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 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.

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* 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.

General Properties of CN7030NN/BB

table1-1 General Properties (ISO)

Item	Unit	Test Method	Flame Retardant, Standard, UL Approved Regrind 50% Inclusive
			CN7030NN/BB
			GF30% reinforced, Standard
Color			-
ISO(JIS)quality-of-the-material display:		ISO11469 (JIS K6999)	>PBT-GF30 FR(17)<
Density	g/cm ³	ISO 1183	1.67
Tensile strength	MPa	ISO 527-1,2	127
Strain at break	%	ISO 527-1,2	1.9
Flexural strength	MPa	ISO 178	200
Flexural modulus	MPa	ISO 178	10310
Charpy impact strength (notched)	kJ/m ²	ISO 179/1eA	7
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	208
Coefficient of linear thermal expansion (23～55℃、Flow direction)	x10 ⁻⁵ /℃	ISO 11359-2	-
Coefficient of linear thermal expansion (23～55℃、Transverse direction)	x10 ⁻⁵ /℃	ISO 11359-2	-
Dielectric breakdown strength (3mmt)	kV/mm	IEC 60243-1	17
Volume resistivity	Ω・cm	IEC 60093	1 × 10 ¹⁶
Tracking resistance (CTI)	V	IEC 60112	225
Flammability		UL94	V-0
The yellow card File No.			E213445
Appropriate List number of Ministerial Ordinance for Export Trade Control			Item 16 of Appendix -1

※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.

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