



GROMAX ENTERPRISES CORP.

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Engineering Plastics Polybutylene Terephthalate

PBT 2100-104B Technical Data

CCP PBT 2100-104B

PBT 2100-104B is an unreinforced flame-retarded injection molding grade.

Characteristics

- 1)excellent electrical property
- 2)excellent mechanic and chemical property
- 3)excellent weatherability
- 4)excellent wear property
- 5)excellent moldability
- 6)high resistance to fuels, oil, fats and many solvents
- 7)high toughness

Injection Molding Condition

Cylinder temperatures	: 230-270°C
Nozzle temperature	: 250-270°C
Mold temperature	: 40-120°C, suitable temperature 60-80°C
Injection rate	: middle – fast
Screw speed	: 60-120 rpm, to be chosen in such a way that plasticizing time is just within cooling time.
Pressure	Injection pressure : 500-1200 kg/cm ²
	Holding pressure : 300-800 kg/cm ²
	Back pressure : 0-3 kg/cm ²
Mold shrinkage	Mold shrinkage 1.6 mm thickness horizon is 0.8-1.6% and vertical is 1.0-1.8% under the test method ASTM D955.

Packaging

25 kg/ paper bag 25kg



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Property	Value	Unit	Test method ASTM
Specific gravity	1.35	-	D792
Tensile strength	350	kg/cm ²	D638
Tensile elongation	5.5	%	D638
Flexural strength	550	kg/cm ²	D790
Flexural modulus	17500	kg/cm ²	D790
Izod impact strength - notched 1/4"	5.5	kg-cm/cm	D256
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Dielectric strength, 2 mm	20	KV/mm	D149
Volume resistivity	10 ¹⁵	Ω-cm	D257
Surface resistivity	10 ¹³	Ω	D257
Dielectric constant	3.2	60Hz	D150
Dielectric dissipation factor	0.001	60Hz	D150
Arc resistance	80	SEC	D495
Melting point	225	°C	DSC
Coef. of linear thermal expansion	9	10 ⁻⁵ cm/cm°C	D696
Heat deflection temperature under load			
--- 18.6 kg/cm ²	55	°C	D648
--- 4.6 kg/cm ²	150	°C	D648
Moisture absorption (24h)	0.05	%	D570
Flammability acc. to UL94, 0.8 mm thickness	V-0	-	UL94
Hardness - rockwell	118	R	D785

(1) For reference only

(2) All data in the table are the typical values of the material and not the minimum values of the material specifications.