



Gromax Enterprises Corp.

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Engineering Plastics

Polybutylene Terephthalate

Technical Data

PBT 1100-211MD

PBT unreinforced middle viscosity injection moulding grade.

(中黏度射出級聚對苯二甲酸丁二醇酯)

Characteristics 特性

- 1)excellent electrical property(優越的電氣性質)
- 2)excellent temperature resistance, high heat distortion temperature.
(耐熱性佳，熱變形溫度高)
- 3)excellent mechanic and chemical property(優越的機械與化學性質)
- 4)excellent weatherability(耐候性佳)
- 5)excellent wear property(耐磨耗性佳)
- 6)excellent moldability(優越的成形性)
- 7)Good chemical resistance.(耐化性佳)
- 8)Good creep behavior.(優越的蠕變性質)
- 9)Very low water absorpton. (吸水率低)

Injection Moulding Condition (射出成型條件)

Cylinder temperatures : 230-260°C
料管溫度

Nozzle temperature : 245-250°C
射嘴溫度

Mould temperature(模溫) : 30-100°C, suitable temperature 40-80°C

Injection rate(射速) : middle

Screw speed : 60-120 rpm, to be chosen in such a way that plasticizing
(螺桿轉速) time is just within cooling time.

Pressure (壓力) Injection pressure(射壓) : 500-1200 kg/cm²
Holding pressure(保壓) : 300-800 kg/cm²
Back pressure(背壓) : 0-3 kg/cm²

Mould shrinkage : Mould shrinkage 1.6 mm thickness is 1.2-1.8 % under the test
收縮率 method ASTM D955.
1.6mm 測試試片，收縮率為 1.2-1.8%

Packaging(包裝)

25 kg paper bag or 850 kg super sack. (25 公斤袋裝或 850 公斤太空包裝)



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Property (物性)	Value (規格值)	Unit (單位)	Test method (測試方法)
ISO			
Intrinsic Viscosity(極限黏度)	0.965±0.015	dl/gr	ISO 1628
Melting index(熔融指數)(250°C)	31~37	g/10min	ISO 1133
Carboxyl End Groups(末端羧基含量)	≤30	meq/kg	Chang Chun
Color L*(色相 L*值)	≥85	-	Chang Chun
Color b*(色相 b*值)	≤3	-	Chang Chun
Density(比重)	1.30-1.32	g/cm ³	ISO 1183
Melting point(熔點)	225	°C	ISO 11357-1
Heat deflection temperature under load (熱變形溫度)			
--- 1.80 MPa	60	°C	ISO 075
--- 0.45 MPa	155	°C	ISO 075
Flammability acc. to UL94, 0.8 mm thickness (耐燃性)	HB		UL94
Tensile strength(引張強度)	50-60	MPa	ISO 527
Tensile elongation(引張伸長率)	>80	%	ISO 527
Flexural strength(撓曲強度)	80-90	MPa	ISO 178
Flexural modulus(撓曲模數)	2200-2400	MPa	ISO 178
Charpy notched impact strength(23°C) (Charpy 缺口衝擊強度)	4.7	KJ/m ²	ISO 179
Dielectric strength, 2 mm thickness (絕緣破壞強度)			IEC 243-1
Volume resistivity(體積抵抗率)	10 ¹⁵	Ω-cm	IEC 60093
Surface resistivity(表面抵抗率)	10 ¹³	Ω	IEC 60093
Arc resistance(耐電弧)	120	Sec	UL 746A

※ 表中測試數據僅作參考用，非制定之規格值。

(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.