

PP 複合材料樹脂

POLYPROPYLENE COMPOSITE MATERIALS

台化塑膠部本著「一般規格加值化，特殊規格高值化，全力投入高值化規格開發」，在現有 60 萬噸 / 年基本樹脂產能的基礎上，強勢投入 10 萬噸 / 年的 IN-LINE COMPOUND 生產線。

FCFC plastic division focus on general grade innovation, special grade advantage improvement and special grade development. The capacity of PP is 600,000 MT per year. Additional IN-LINE COMPOUND capacity is 100,000 MT per year.



台化塑膠部 IN-LINE COMPOUND 複合材料 五大優勢

There are 5 advantages of PP In-line compound from FCFC.

- 1 高度客製化全方位解決方案提供者
Providing "Total Solution" with customization
- 2 維持樹脂最佳的初始物性
With better physical properties
- 3 具有更佳的混煉效果
Produced by effective compounding process
- 4 節省二次過管造粒的成本
Reducing cost of post-compounding process
- 5 優化客戶端製程
Optimizing customer's production line



Formosa Chemicals & Fibre Corp.

規格表 SPECIFICATION

項目 Property	單位 Unit	試驗方法 Test Method	試驗條件 Test Condition	射出級			
				R4340	C5210	H7715	C6520
熔融指數 Melt Flow Index	g/10min	ASTM D-1238	230℃×2.16kg	38	13	15	20
降伏點抗張強度 Tensile Strength at Yield	kgf/cm ² (MPa)	ASTM D-638 (ISO 527)	23℃	240 (23)	190 (18)	200 (19)	210 (20)
斷裂點延伸率 Tensile Elongation at break	%	ASTM D-638	23℃	>200	>200	>200	>200
彎曲模數 Flexural Modulus	kgf/cm ² (MPa)	ASTM D-790A (ISO 178)	23℃	9,000 (867)	10,000 (963)	6,500 (626)	9,000 (867)
洛氏硬度 Rockwell Hardness	R-Scale	ASTM D-785	23℃	65	55	40	40
Izod衝擊強度 Izod Impact Strength	kg-cm/ cm (J/m)	ASTM D-256 (ISO 180)	23℃ 1/8"bar	9 (88)	45 (440)	50 (490)	50 (490)
			-20℃ 1/8"bar	4.5 (44)	7 (69)	9 (88)	13 (127)
熱變形溫度 Heat Deflection Temperature	℃	ASTM D-648	Unannealed 1/4"bar	70	105	83	100
收縮率 Molding Shrinkage	%	FCFC Method	23℃	1.5~2.0	1.2~1.4	0.9~1.1	0.9~1.1
比重 Specific Gravity	-	ASTM D-792	23℃/23℃	0.9	0.95	0.9	0.9
FDA Compliance	-	-	-	Yes	-	-	-
燃燒性 Flammability	-	UL-94	File No.E162823	-	-	-	-
特性 Characteristics				可低溫冷藏、透明度佳	尺寸安定性優異、耐衝擊性佳	耐衝擊性佳、抗衝擊白化佳、低收縮率	高耐衝擊性、低衝擊白化、低收縮率

以上數值係參考ASTM、ISO試驗方法所測得，僅供選擇用途品級之參考。
All tests were run under laboratory conditions ASTM, ISO testing procedures.
The data are intended as a general guide only.

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