



技術資料表
Technical Data Sheet

AC3835-A BT TYPE

無氯、溴、銻，軌道阻燃用料，抗 UV 耐候，抗菌防霉複合級

Free of chlorine, bromine and antimony, rail flame retardant material, anti-UV and weather-resistant, anti-bacterial and anti-mildew composite grade

樹酯 Resin PC Polycarbonate
規格 Grade AC3835-A-BT5A-E
來源 source 台灣化學股份有限公司 / 上禾伸企業

描述 Description

■無氯、溴、銻，阻燃 UL-94 V0 1.0mm · 5VA 3.0mm。

No chlorine, bromine, antimony, flame retardant UL-94 V0 1.0mm, 5VA 3.0mm.

■通過 UL746B f1，耐候測試。

Passed UL746B f1, weather resistance test.

■通過相關軌道車輛阻燃認證 Passed relevant rail vehicle flame retardant certification：

BSS 7239 規範，煙毒測試。

BSS 7239 specification, smoke and poison testing

FAR 25.853a 規範，垂阻燃直燃燒測試。

FAR 25.853a specification, vertical flame-retardant direct burning test

ASTM E662 規範，煙濃度、密度測試。

ASTM E662 specification, smoke concentration and density test

■抗菌效果檢測可以通過 ISO 22196 規範測試。無銀、汞、鉛、鎘等重金屬的抗微生物添加劑，良好的耐熱性穩定性，與良好和長期的抗菌防霉的特性，也賦予產品除臭性。大腸桿菌與黃金葡萄球菌、其他有害病菌、黴菌，有抑制生長與繁殖效果，尤其在高潮濕的環境，有更明顯抗菌防霉的效果。

Antibacterial effect testing can pass the ISO 22196 specification test. Antimicrobial additives without heavy metals such as silver, mercury, lead, and cadmium, good heat resistance and stability, and good and long-term antibacterial and antifungal properties, which also give the product deodorizing properties. Escherichia coli, Staphylococcus aureus, and other harmful bacteria and molds can inhibit the growth and reproduction. Especially in high-humidity environments, it has a more obvious antibacterial and anti-mold effect.

成型模式 射出成型 押出成形
Forming mode Injection Molding Extrusion Molding

**特性 Properties**

項目 Project	單位 Unit	測試標準 Testing standards	標準數值 Typical Value
比重 Specific Gravity	g/cm ³	ASTM D792	1.2
流動指數 MFR,(MI) 300×1.2KG	g/10min	ASTM D1238 (ISO 1133)	8~10
收縮率-平行 Mold Shrinkage MD	%	3 mm t	0.5
收縮率-垂直 ⊥ Mold Shrinkage TD			~0.7
耐燃性 Flammability		UL-94	V0 1.0mm 5VA 3.0mm
顏色 Color			棕色 brown (指定色 specified color)

機械特性 Mechanical properties

伸張強度 Tensile Strength	kg/ cm ² (MPa)	ASTM D638 (ISO 527)	710 (70)
彎曲強度 Flexural Strength	kg/ cm ² (MPa)	ASTM D790 (ISO 790)	1050 (100)
彎曲模數 Flexural Modulus			20800 (2040)
衝擊強度(缺口式)Izod Impact (notched)	23°C kg-cm/cm (J/m)	ASTM D256	80 780
硬度 Rockwell/Shore Hardness	R-scale	ASTMD785 /D2039/2	127

熱力特性 Heat properties

熱變型溫度 18.54kg/ cm ² (1.8MPa) H D T 未退火 Unannealed	°C	ASTM D648 /ISO 75/A	123
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成型條件 Molding conditions

烘乾溫度 Drying temp. °C	120	烘乾時間 Drying time H	4-8
進料區溫度 Feed zone temp. °C	260~275	壓縮區溫度 Compression zone temp. °C	270~320
計量區溫度 Metering zone temp. °C	265~295	噴嘴溫度 Nozzle temp. °C	270~320
模具溫度 Mold temp. °C	80~120	射出壓力 Injection pressure Kg/ cm ²	**

*雖然上述信息是出於善意並被認為是準確的，但我們不保證依賴此類信息取得令人滿意的結果，並且不承擔因使用此類信息而引起的任何損失或損害的全部責任。*以上數值係僅供選擇用途品級之參考。

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