



## 技術資料表 Technical Data Sheet

### **BHUTYPE**

PC/ASA 合金，耐熱、耐衝擊，戶外耐候佳、抗 UV 級

PC/ASA alloy, heat-resistant, impact-resistant, excellent outdoor weather resistance, UV resistant

樹脂 Resin	PC/ASA PC/ASA ALLOY
規格 Grade	BHU76-A1
來源 Source	上禾伸企業 SHANG HE SHEN ENTERPRISE CO., Ltd.

#### 描述 Description

PC/ASA 合金是一種由聚碳酸酯 ( PC ) 和丙烯腈-苯乙烯-丙烯酸酯共聚物 ( ASA ) 混合而成的工程塑料。它完美結合了 PC 的優異剛性、高耐熱與抗衝擊性，以及 ASA 出色的戶外耐候性、抗紫外線和耐化學性，廣泛應用於對外觀要求高的戶外與工業產品中。

PC/ASA alloy is an engineering plastic made from a blend of polycarbonate (PC) and acrylonitrile-styrene-acrylate copolymer (ASA). It perfectly combines the excellent rigidity, high heat resistance, and impact resistance of PC with the outstanding outdoor weather resistance, UV resistance, and chemical resistance of ASA, making it widely used in outdoor and industrial products where appearance is a critical factor.

■具有 PC 塑料優異機械強度，高抗衝擊性、拉伸強度與韌性。

It possesses the excellent mechanical strength, high impact resistance, tensile strength, and toughness of PC plastic.

■具備 ASA 塑料卓越的耐候與抗黃變能力，與抗 UV 性能，減緩在戶外長期日照下容易脆化、黃變的問題。

It possesses the excellent weather resistance and anti-yellowing properties of ASA plastics, as well as UV resistance, mitigating the problems of brittleness and yellowing under long-term outdoor sunlight.

■由於表面光澤度佳且抗刮，許多外觀件可直接使用本色，減少塗裝成本。

Due to its excellent surface gloss and scratch resistance, many exterior parts can be painted in their natural color, reducing painting costs.

■高流動性、低黏度，更容易進行射出成型，減少成型內應力，可使用於細長、大型的產品，加工效率高，容易成型。

With high fluidity and low viscosity, it is easier to perform injection molding, reduces internal stress during molding, and can be used for slender and large products. It has high processing efficiency and is easy to mold.

#### 應用 Application

3C 與家電：對耐熱與防紫外線有要求的電視機邊框、冷氣室外機外。

3C and Home Appliances: Television frames and outdoor air conditioning units requiring heat resistance and UV protection.

戶外建材：戶外電器外殼、建築門窗型材、通訊設備戶外箱。



Outdoor Building Materials: Outdoor appliance housings, building door and window profiles, and outdoor enclosures for communication equipment.

汽車工業：車身外飾件（如水箱護罩、後視鏡外殼）、車頂架等。

Automotive Industry: Vehicle exterior parts (such as radiator grilles and rearview mirror housings), roof racks, etc.

**成型模式**

射出成型

**Forming mode**

Injection Molding

**特性 Properties**

項目 Project	測試標準 Testing standards	單位 Unit	標準數值 Typical Value
比重 Specific Gravity	ASTM D792	g/cm <sup>3</sup>	1.12
流動指數 MFR,(MI) 260×5KG	ASTM D1238	g/10min	26
收縮率-平行    Mold Shrinkage MD	3 mm t	%	0.4
收縮率-垂直 ⊥ Mold Shrinkage TD			~0.6
耐燃性 Flammability	UL-94		HB
顏色 Color			natural color

**機械特性 Mechanical properties**

伸張降伏強度 Tensile Strength at Yield			540
伸張斷裂強度 Tensile Strength at Break	ASTM D638	kg/ cm <sup>2</sup>	410
拉伸模數 Tensile Modulus			20500
斷裂伸張率 Tensile Elongation at Break		%	14
彎曲強度 Flexural Strength	ASTM D790	kg/ cm <sup>2</sup>	820
彎曲模數 Flexural Modulus			22000
衝擊強度(缺口式)IZOD Impact (notched)	ASTM D256	23°C kg-cm/cm	60
硬度 Rockwell/Shore Hardness	ASTM D785/D2240	D	72

**熱力特性 Heat properties**

熱變型溫度 18.54kg/ cm <sup>2</sup>	ASTM D648	°C	92
Heat distortion temperature H D T			

**電氣特性 Electrical properties**

體積固有阻抗 Volume inherent impedance	ASTM D257	Ω-cm	10 <sup>14</sup>
表面阻抗 Surface resistivity		Ω	10 <sup>14</sup>

**建議成型條件 Recommended molding conditions**

烘乾溫度 Drying temp. °C	100~110	烘乾時間 Drying time H	3~4
進料區溫度 Feed zone temp. °C	240-260	壓縮區溫度 Compression zone temp. °C	245-270
計量區溫度 Metering zone temp. °C	245~275	噴嘴溫度 Nozzle temp. °C	245-280
模具溫度 Mold temp. °C	60~90	射出壓力 Injection pressure Kg/ cm <sup>2</sup>	**

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