



技術資料表
Technical Data Sheet

IUTYPE

ABS/TPU 合金，提高耐撕裂強度、抗剪切性，提高耐磨性，提高耐衝擊性與低溫衝擊，耐化學性、耐油性改善

ABS/TPU alloy, improves tear strength, shear resistance, wear resistance, impact resistance and low temperature impact resistance, chemical resistance and oil resistance

樹脂 Resin	ABS Acrylonitrile-Butadiene-Styrene Copolymer
規格 Grade	IU8673-B9
來源 source	上禾伸企業

描述 Description

在 ABS 塑料中添加 TPU 塑料，材料的耐磨性、抗剪切性、低溫性能得到提高，同時材料的塗飾性能、耐化學性能及耐油性有明顯的改善，融體流動速率(MFR)大幅度上升。

Adding TPU plastic to ABS plastic improves the material's wear resistance, shear resistance, and low-temperature performance. At the same time, the material's coating performance, chemical resistance, and oil resistance are significantly improved, and the melt flow rate (MFR) increases significantly.

■ABS 塑料提高耐撕裂強度、抗剪切性。

ABS plastic improves tearing strength and shear resistance.

■ABS 塑料提高耐磨與耐磨損耗。

ABS plastic improves resistance to wear and abrasion losses.

■ABS 塑料提升耐衝擊性，低溫耐衝擊性明顯提高。

ABS plastic improves impact resistance, and low-temperature impact resistance is significantly improved.

■ABS 塑料耐化學性能及耐油性有明顯的改善，增加擴大適用產品範圍。

The chemical resistance and oil resistance of ABS plastic have been significantly improved, increasing and expanding the range of applicable products.

■融體流動速率上升，加工性提高。

The melt flow rate increases and the processability improves.

■符合 ROHS、REACH 規範。

Comply with ROHS and REACH specifications.

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 ³	1.06
流動指數 MFR,(MI) 230×2.16KG	ASTM D1238	g/10min 8	9
收縮率-平行 Mold Shrinkage MD	3 mm t	%	0.6
收縮率-垂直 ⊥ Mold Shrinkage TD			~0.10
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	ASTM D638	kg/ cm ²	390
伸張斷裂強度 Tensile Strength at Break			330
拉伸模數 Tensile Modulus			14800
斷裂伸張率 Tensile Elongation at Break			28
彎曲強度 Flexural Strength	ASTM D790	kg/ cm ²	560
彎曲模數 Flexural Modulus			16400
衝擊強度(缺口式) IZOD Impact (notched)	ASTM D256	23°C kg-cm/cm	13
		-30°C kg-cm/cm	6
硬度 Rockwell/Shore Hardness	ASTM D785/D2240	D	68

熱力特性 Heat properties

熱變形溫度 4.6kg/ cm ²	ASTM D648	°C	95
Heat distortion temperature H D T			
熱變形溫度 18.54kg/ cm ²			72
Heat distortion temperature H D T	ASTM D1525		98
維氏軟化點 Vickers softening point			

成型條件 Molding conditions

烘乾溫度 Drying temp. °C	70~80	烘乾時間 Drying time H	2~3
進料區溫度 Feed zone temp. °C	175~195	壓縮區溫度 Compression zone temp. °C	180~200
計量區溫度 Metering zone temp. °C	185~205	噴嘴溫度 Nozzle temp. °C	185~210
模具溫度 Mold temp. °C	40~80	射出壓力 Injection pressure Kg/ cm ²	800~1300

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