



技術資料表
Technical Data Sheet

1WU14TYPE

酯類透明藍光，抗 UV 級

Ester transparent blue light, anti-UV grade

樹脂 Resin	TPU 聚酯類 Thermoplastic Polyurethane polyester		
規格 Grade	1WU1486A-C2	1WU1490A-C2	1WU1495A-C2
來源 source	上禾伸企業		

描述 Description

- 3mm 厚度透明藍光，不帶黃光。
3mm thickness transparent blue light without yellow light.
- 抗 UV 耐候，可用於戶外用產品，延長產品戶外使用壽命。
Anti-UV and weather-resistant, it can be used in outdoor products to extend the outdoor service life of the product.
- 優良的反撥彈性、抗撕裂佳，耐磨性極佳。
Excellent kickback elasticity, good tear resistance and excellent wear resistance.
- 抗張強度及斷裂延伸率大，優秀彎曲強度。
High tensile strength and elongation at break, excellent flexural strength.
- 可耐低溫-35~50°C
Can withstand low temperature -35~-50°C
- 耐油、耐潤滑油及耐脂肪族碳氫有機溶劑。
Oil resistance, lubricating oil resistance and aliphatic hydrocarbon organic solvent resistance.
- 具抗氧、臭氧及耐老化。
Anti-oxidant, ozone and aging resistant.
- 可和 PC、PC/ABS 雙次射出黏合。
It can be bonded with PC and PC/ABS by double injection.
- 是綠色環保塑料，對環境非常友善，可短期內，在自然環中分解，低汙染。
It is a green and environmentally friendly plastic, which is very friendly to the environment. It can be decomposed in the natural environment in a short period of time and has low pollution.

成型模式	射出成型	押出成型	淋膜、延押成型
Forming mode	Injection Molding	Extrusion Molding	Laminating and extrusion molding



特性 Properties

1WU14TYPE 酯類透明藍光·抗UV級

Ester transparent blue light, anti-UV grade

	1WU1486A-C2	1WU1490A-C2	1WU1495A-C2
項目 Project			
單位 Unit / 測試標準 Testing standards			
硬度 Rockwell Hardness	86±2	90±2	95±2
Shore A			
比重 Specific Gravity	1.2	1.2	1.2
g/cm ³ / ASTM D792			

機械特性 Mechanical properties

抗拉模數 Tensile Modulus 100%	80	90	100
Kg/cm ² / ASTM D-412			
拉伸強度 Tensile Strength	350	350	400
kg/cm ² / ASTM D-412			
伸長率 Elongation at Break	400	400	450
% / ASTM D-412			
撕裂強度 Tear Strength	90	110	130
kg/cm / ASTM D790			
磨耗損失 Taber Abrasion	< 40	< 40	< 40
Mg / ASTM D-1044			
反撥彈性 Bayshore Rebound	> 45	> 45	> 45
% / ASTM D-2632			

其他屬性 Miscellaneous Properties

顏色 Color	透明藍光	透明藍光	透明藍光
	Transparent blue light	Transparent blue light	Transparent blue light
形態 Product Form	Pellets	Pellets	Pellets
燃燒性 Flammability UL 94	HB	HB	HB

射出成型條件 Injection molding conditions

烘乾溫度 Drying temp. °C	95~105	烘乾時間 Drying time H	2~3
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■TPU 塑料具有吸濕性，樹脂的預乾燥始終是加工前的必要步驟。依氣候，暴露在大氣中的顆粒會很快吸收水分。水分可能會導致聚合物的裂解，以及在模製和擠出部件中形成氣泡或條紋。為了確保高效和成功加工成優質部件，請參考建議烘乾溫度及時間。

TPU resin has hygroscopicity, and pre-drying of TPU resin is always a necessary step before processing. Relying on the climate, particles exposed to the atmosphere will quickly absorb moisture. Moisture may cause partial degradation of the polymer and formation of air bubbles or streaks in molded and extruded parts. In order to ensure efficient and successful processing into high quality parts, please refer to the recommended drying temperature and time.

1WU1486A-C2

進料區溫度 Feed zone temp. °C	170~180	壓縮區溫度 Compression zone temp. °C	180~190
計量區溫度 Metering zone temp. °C	180~200	噴嘴溫度 Nozzle temp. °C	175~200

1WU1490A-C2

進料區溫度 Feed zone temp. °C	175~185	壓縮區溫度 Compression zone temp. °C	185~195
計量區溫度 Metering zone temp. °C	185~205	噴嘴溫度 Nozzle temp. °C	175~205



1WU1495A-C2

進料區溫度 Feed zone temp. °C 175~185 壓縮區溫度 Compression zone temp. °C 185~195

計量區溫度 Metering zone temp. °C 185~205 噴嘴溫度 Nozzle temp. °C 180~205

■TPU 塑料成型溫度以低標為設定基準試做，逐步以 5°C 昇高成型溫度，直到適合成型溫度即可，否則溫度過高，產品容易產生變色、過火熱烈解。

The molding temperature is tested by setting the low standard as a reference, and gradually increasing the molding temperature by 5°C until it is suitable for the molding temperature. Otherwise, the temperature is too high, and the product is prone to discoloration and overheating.

供應與儲存 Supply and Storage

■塑料以顆粒形式提供，包裝在 25kg 防潮袋中。

The plastic is supplied in pellet form, packaged in a 25kg moisture-proof bag.

■所有塑料在包裝前都已經乾燥。

All plastics are dried before packaging.

■塑料應儲存在陰涼乾燥的環境中，直到使用前為止。

Plastic should be stored in a cool, dry environment until just before use.

■塑料儲存溫度不應超過 30°C。如果僅從袋中使用一部分 TPU 樹脂，則其餘 TPU 樹脂應該緊密封閉。

Plastic storage temperature should not exceed 30°C. If only a portion of the TPU resin is used from the bag, the rest of the TPU resin should seal tightly.

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