



技術資料表
Technical Data Sheet

4WFI110TYPE

遠紅外線、生育光波薄板材

Far-infrared rays, reproductive light wave thin sheets

產品 **product** EVA 板 Ethylene vinyl acetate sheet

規格 **Grade** 4WFI110-A1

來源 **source** 上禾伸企業

厚度 **mm** 0.7~2.0

表面 **surface** 單面啞光 Single side matte

描述 **Description**

▪良好的柔軟性、彈性、抗龜裂性、低溫柔軟性、緩衝性、耐衝擊性、隔熱性、耐濕性、耐化學性等優點，並且無毒、不吸水。

Good flexibility, elasticity, crack resistance, low temperature flexibility, cushioning, impact resistance, heat insulation, moisture resistance, chemical resistance, etc., and non-toxic, non-absorbent.

▪保溫隔熱：保溫、隔熱和低溫性能優良，可承受嚴酷的寒冷和暴曬。

Thermal insulation: excellent thermal insulation, thermal insulation and low temperature performance, can withstand severe cold and exposure.

▪可加工性：易於加工，例如熱壓、切割、粘合與層壓。

Processability: Easy to process, such as heat pressing, cutting, bonding and lamination.

▪防振：高回彈性和拉伸強度、強韌性，以及良好的防振、緩衝性能。

Anti-vibration: high resilience and tensile strength, strong toughness, and good anti-vibration and cushioning properties.

▪耐水性：閉孔結構，不吸水、耐濕、耐水性佳。

Water resistance: closed-cell structure, non-absorbent, moisture-resistant and water-resistant.

▪耐化學性：耐海水、油脂、酸、鹼和其他化學物質，抗菌、無毒、無味、無污染。

Chemical resistance: resistant to seawater, grease, acid, alkali and other chemicals, antibacterial, non-toxic, odorless, and non-polluting.

符合規範 **Compliance with specifications**

▪符合 FDA 21 177.1350.規定：符合美國食品、藥品之包裝或容器規定

Comply with FDA 21 177.1350. Regulations: Comply with US food and drug packaging or container regulations

▪符合 EU-10：符合歐盟食品之包裝或容器規定

EU-10 Compliant: Complies with EU food packaging or container regulations

▪符合 EN-71：符合歐盟對玩具製品重金屬含量規定

Comply with EN-71: Comply with EU regulations on heavy metal content in toy products

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遠紅外線簡述 A Brief Introduction to Far Infrared Rays

遠紅外線為不可視光線的一種，波長在 4 微米 ~ 1000 微米之間，其中以 4 ~ 20 微米的範圍對人體最有益。遠紅外线的特性是能深入人體內部的組織，促進人體內細胞的水分子產生一種共振，賦予細胞生命力，加速血液循環，活化新陳代謝，增進組織再生的能力，活化免疫系統，並且能有效的抑制老化。

上禾伸企業有限公司以 EVA 樹脂為基材，將來源貴金屬白金奈米化（粒徑小於 20nm）遠紅外線陶瓷粉之生育光波添加劑，與樹脂結合、複合，室溫下即可釋放出生育光波（4~14 μ m，接近人體釋放的 9.36 μ m 電磁波），可與人體產生共振效果，具有強力促進新陳代謝、活血健身的良好效果。適合用於保健、保溫及醫療等產品上。

Far-infrared rays are a kind of invisible light with wavelengths between 4 microns and 1000 microns, of which the range of 4 to 20 microns is the most beneficial to the human body. The characteristics of far infrared rays are that they can penetrate deep into the tissues of the human body, promote a resonance of water molecules in the cells of the human body, endow cells with vitality, accelerate blood circulation, activate metabolism, enhance the ability of tissue regeneration, activate the immune system, and can effectively inhibit aging.

Shang He Shen Enterprise Co., Ltd. uses EVA resin as the base material, and combines and composites the growth light wave additive of far-infrared ceramic powder derived from precious metal platinum nanometer (particle size less than 20nm) with the resin, and can release the growth light wave at room temperature. (4~14 μ m, close to the 9.36 μ m electromagnetic wave released by the human body), it can have a resonance effect with the human body, and has the good effect of strongly promoting metabolism, promoting blood circulation and fitness. Suitable for use in health care, thermal insulation and medical products.

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	0.955±0.03
硬度 Rockwell Hardness	Shore A	ASTM D2240	86±3
顏色 Color			White

機械特性 Mechanical properties

伸張斷裂強度 Tensile Strength at Break	Kg/cm ²	ASTM D638	170
斷裂伸張率 Tensile Elongation at Break	%		800
低溫脆裂溫度 Low Temperature Brittleness	°C/F50	ASTM D764	<-76
衛氏軟化溫度 Vicat Softening Temperature	°C	ASTM D1525	58
熔點 Melt Point		ASTM D3418	82

*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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