

TPSIV TYPE

TPSIV 熱塑性矽膠改質系列：絲滑柔順，無黏性，耐磨、耐刮性佳，高延伸率，高流動，脫模性佳，耐低溫

TPSIV Thermoplastic Silicone Modified Series: Silky smooth, non-sticky, excellent abrasion and scratch resistance, high elongation, high flowability, good mold release, and low temperature resistance

產品 product	TPSIV 熱塑性矽膠改質系列 TPSIV Thermoplastic Silicone Modified Series TPSIV、TPU、TPEE、PA6(尼龍 6)、PP
來源 source	上禾伸企業 SHANG HE SHEN ENTERPRISE CO., Ltd.

描述 Description

TPSIV 熱塑性矽膠改質系列，動態硫化技術，將充分硫化的矽橡膠微粒（島相/分散相），均勻分散在熱塑性 TPSIV、TPU、TPEE、PA6、PP 塑料中，形成的一種穩定結構。

TPSIV thermoplastic silicone modified series, dynamic vulcanization technology, uniformly disperses fully vulcanized silicone rubber particles (island phase/dispersed phase) in thermoplastic TPSIV, TPU, TPEE, PA6, PP plastics to form a stable structure.

■獨特絲滑的觸感，表面細膩不黏手，抗髒污、不易沾灰塵，特別適合與皮膚接觸。

With a uniquely silky smooth feel, a delicate and non-sticky surface, it is resistant to dirt and dust, making it especially suitable for skin contact.

■卓越的化學與環境耐性，具備優良的抗高低溫、抗水解、耐候性，以及出色的耐化學品性。

It exhibits excellent chemical and environmental resistance, with superior resistance to high and low temperatures, hydrolysis, and weathering, as well as outstanding chemical resistance.

■優異的機械與物理性能，它擁有更好的延伸性、抗撕裂強度，以及較佳的耐磨損與抗刮擦性。

It possesses excellent mechanical and physical properties, including better elongation, tear strength, low tensile strength at high temperatures, high heat resistance, low compression set, and superior wear and scratch resistance.

■良好的射出包覆性，能與數種塑料等極性塑膠原料，進行非常穩固的粘接包覆成型。

It has excellent injection molding properties and can be bonded and molded very firmly with several polar plastic materials such as plastics.

■降低黏度，流動性提高，脫模性佳，尤其 TPU 塑料 TPEE 塑料改質後。

Reduced viscosity, improved fluidity, and better mold release properties, especially after modification of TPU and TPEE plastics.

■綠色環保彈性體塑料，材料不含副產物，低氣味，且能夠 100% 回收循環再利用。

This green and environmentally friendly elastomer plastic contains no byproducts, has a low odor, and is 100% recyclable.

■比重輕、易加工，符合 RoHS、REACH、PAHs 規範。

It is lightweight, easy to process, and complies with RoHS, REACH, and PAHs standards.

應用 Applications

- ◆運動休閒：各類運動器材手柄、穿戴式裝置配件。

Sports and leisure: Handles for various sports equipment and wearable device accessories.

- ◆美妝與食品包裝：化妝品瓶蓋外殼、軟質刷頭、廚房用品手柄。

Cosmetic and food packaging: cosmetic bottle caps, soft brush heads, and kitchenware handles.

- ◆消費性電子：智慧手環/手錶錶帶、手機保護殼、藍牙耳機耳套等軟質包膠。

Consumer electronics: Soft rubber coating for smart bracelet/watch straps, mobile phone cases, Bluetooth earphone ear tips, etc.

- ◆汽車工業：車內按鍵、內飾包膠、密封件與防塵罩。

Automotive industry: In-vehicle buttons, interior trim, sealants, and dust covers.

成型模式

射出成型

Forming mode

Injection Molding

上禾伸企業 TPSIV 熱塑性矽膠系列

TPSIV 塑料規格

優化特性描述 Optimization feature description

產品表面絲滑柔順，無黏性，觸感佳，耐磨、耐刮性佳。

The product surface is silky smooth, non-sticky, has a pleasant feel, and is highly wear- and scratch-resistant.

樹脂 Resin	規格 Grade	簡介 Introduction
TPSIV	6W140A~185A-A1	硬度 40~85A
TPSIV	6WAC340A~385A-D1	硬度 40~85A，永久抗靜電規格

TPU 塑料規格

優化特性描述 Optimization feature description

產品表面絲滑柔順，無澀性，流動性提高，脫模性改善，加工性改善，加工效率提高。

The product surface is silky smooth and non-abrasive, with improved fluidity, better mold release properties, improved processability, and increased processing efficiency.

TPU	1WSV1970A~1960D-P2	酯類，硬度 70A~60D
TPU	1WSV2970A~2960D-P3	醚類，硬度 70A~60D
TPU	1WSVAC1970A~1960D-B91	酯類，硬度 70A~60D，永久抗靜電規格

TPEE 塑料規格

優化特性描述 Optimization feature description

產品表面絲滑柔順，無澀性，流動性提高，脫模性改善，加工性改善，加工效率提高。

The product surface is silky smooth and non-abrasive, with improved fluidity, better mold release properties, improved processability, and increased processing efficiency.

TPEE	7WSV530D6~560D6-P9	硬度 30D~66D
TPEE	7WSVAC530D6~560D6-M72	硬度 30D~66D，永久抗靜電規格

PA6 塑料規格

優化特性描述 Optimization feature description

產品表面耐刮性增強，滑順感提高，增韌、耐寒佳耐低溫，提高延伸性，脫模性改善。

The product surface has enhanced scratch resistance, improved smoothness, increased toughness, better cold resistance and low-temperature resistance, improved elongation, and improved mold release properties.

PA6	DSV52-P1	IZOD 9
PA6	DSV53-P1	IZOD 13
PA6	DSVAC52G-M62	IZOD 10

PP 塑料規格

優化特性描述 Optimization feature description

產品表面耐刮性增強，滑順感提高，增韌、耐寒佳耐低溫，提高延伸性，脫模性改善。

The product surface has enhanced scratch resistance, improved smoothness, increased toughness, better cold resistance and low-temperature resistance, improved elongation, and improved mold release properties.

PP	ASV56-P3	硬度 56D · IZOD 9
PP	ASV5K-P3	硬度 57D · IZOD 13
PP	ASVAC551-M72	硬度 55D · IZOD 10

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