



DING JI POLYMER
頂級複合材料股份有限公司



崇尚綠色生產
打造精彩生活

Advocating green
production
Create a
wonderful life

台南市新營區東平街65號
No. 65, Dongping St., Xinying Dist.,
Tainan City 730, Taiwan (R.O.C.)
TEL : +886-6-6325855
FEX : +886-6-6325506
E-mail:top.service@top-material-global.com
www.toptpr.com

TPE / TPR
GREEN MATERIL

環保複合材料

DESIGNED BY POLARIS 2019.09 / +886-4-24517070



www.toptpr.com

關於頂級 About us



頂級複合材料創立於 2010 年，是台灣知名的熱可塑性橡膠複合材料 (TPE/TPR Pellets) 製造商，在專業製造與創新開發的基礎下，頂級以高品質的產品和用心的服務與客戶一同並肩成長。頂級的生產銷售中心位於嘉義縣民雄工業區，目前最大產能為每個月 300 公噸，自公司創立以來一直深獲客戶的肯定與支持，除了深耕台灣市場，近年來亦成功的打開海外市場，將產品成功推廣至南亞、東協等地。

頂級擁有完善的造粒生產設備及先進的檢驗儀器如：拉力測試機、流動指數測試儀、DIN 磨耗測試機、測水分儀、摩擦係數測試儀、橡膠反彈係數測試儀...等，可為各產業服務並開發客製化的材料，在工業製品、家庭用品、醫療耗材、電線材上，產品均符合環保規範。展望未來，頂級將拓展市場與強化生產研發能力用以服務更多產業的客戶，與此同時，做為社會的企業公民，頂級將善盡企業社會責任以邁向永續發展的光榮。

Established in 2010, DING JI POLYMER CO., LTD. is one of Taiwan's well-known Thermoplastic Elastomer Pellets manufactures. Based on professional manufacture and innovative development, DING JI develops together with our valuable customers with high quality products and sincere services. Our production and sales center is located in MIN-HSIUNG Industrial DIST., Chiayi County and the capacity is 300 metric tons per month. DING JI not only deepens local markets, but also expands to overseas such as South Asia and East-South Asia etc. All the time, we have gained the customers' support and affirmation.

DING JI has well-equipped production facility and examination equipment such as Tensile testing machine, Flow Index Tester, DIN abrasion tester., Moisture meter, Friction Coefficient tester...etc. which are beneficial to develop customized materials for different requirements such as industrial products, household items, medical supplies, and electric wires... etc. Besides, all the materials are environmental compliance. Looking forward to the future, DING JI will expand markets and strengthen production capabilities to serve more customers from various industries. Meanwhile, being a corporate citizen, DING JI will fulfill corporate social responsibility and advance to sustainable development.



頂級優勢 Advantage





TPE 材料簡介與特性

TPE Material Introduction And Characteristics

熱可塑性彈性體一般通稱為 TPE(Thermoplastic Elastomer) 或 TPR(Thermoplastic Rubber) 熱可塑性橡膠，它是一種具有猶如橡膠般極佳彈性與韌性的材料，TPE 在高溫下能熔融、免加硫、生產製造沒有汙染氣味或有害物質產出，加工容易且效率高，可用於射出成型、押出成型、吹膜成型，材料可以回收再利用兼具環保特性，廣泛應用在日常生活上的一切用品諸如：運動健身用品、衛浴用品、工業用品、鞋材、手工具、腳踏車與汽機車零配件、玩具、醫療及復健用品...。

Thermoplastic elastomers are generally referred to as TPE or TPR (thermoplastic rubbers). Much like rubber, it is a material with excellent elasticity and tenacity. TPE can be melted at elevated temperatures without the presence of sulfur and no air pollutants or harmful substances are released during its production. TPE allows easy and highly efficient processing, and can be used for injection molding, extrusion molding, blown film molding. TPE is environmentally friendly as it can be recycled and reused. It is widely used in all kinds of daily appliances; such as sports and fitness gear, bathroom products, industrial supplies, footwear, handheld tools, bicycle & motorcycle and auto parts, toys, medical and rehabilitation devices, etc.



產品介紹

Profucts



TOP-PELLET® 射出級

TOP-PELLET® Injection grade


TOP-PELLET® 射出級材料具有舒適觸感、富有彈性、結合性佳、耐候、止滑、耐低溫、無毒環保、抗刮與優異物性等特質，能符合產品各項功能性需求，可依客戶特定要求開發客製化材料，廣泛應用在衛浴用品、文具用品、育幼用品、家居及廚房用品、寵物用品、工具類產品、醫療復健用品、運動健身產品、鞋材、電子消費用品、汽機車零配件等各類射出工藝產品上。

TOP-PELLET® 射出級材料以 SBS/SEBS 為基底，其優越的加工性能，可有效解決高污染加硫橡膠系的高加工成本以及 PVC 耐寒性劣、製程中產生有害物質等問題；TOP-PELLET® 射出級材料在射出加工時不會產生有害物質亦可回收重複加工，富有環保與降低原料成本的加工優勢，符合 ROHS、REACH、California Proposition 65 等國際環保規範。

特色

Properties

 接著性優越：
可與PP、PC、PA、ABS、PETG接著
Excellent adhesiveness: Can be used for
adhesion of PP, PC, PA, ABS, PETG.

 可軟可硬，材料軟硬度範圍廣：
Shore A: 5A ~ Shore D: 60D
Can be either hard or soft. Comprehensive
hardness range Shore A: 5A ~ Shore D: 60D

 可油墨印刷
Able to be printed with ink

 乾爽的表面觸感
Dry and clean surface

 易於著色
Easily colored

 抗UV及耐候性佳
Weather and UV
resistance


 良好的止滑性
Effective anti-slipping
property

 導電、抗靜電
Conductive and anti
electrostatic

 優異的抗壓縮變形
Excellent deformation
recovery

 無毒環保
Non-toxic and
environmentally friendly

 堅韌耐用
Excellent tenacity
and durability

 比重輕
Light specific gravity

05

日常生活中的應用產品

Application in everyday products



鞋材

鞋跟後墊、鞋墊、大底

Footwear

Heel pad, shoe sole, out sole.

運動健身用品

腳踏車握把、桌球拍握把、蛙鞋、
泳鏡、滾輪、高爾夫球桿握把

Sports and fitness gear

Bicycle handle grip, table tennis racket
grip, swimming foot fins, swimming
goggles, rolling wheels, golf club grip

家居及廚房用品

餐具握把、砧板止滑墊、杯墊、杯
套、製冰器、家俱防滑墊圈、防撞條

Household and kitchen supplies

Tableware grip, anti-slip cutting
board, coaster, cup sleeve, ice maker,
furniture anti-slip mat/washer,
furniture protective bumper.

文具用品

筆桿握把、玩具公仔、釘書機止滑
墊、美工刀握把、剪刀握把、黏土

Stationary products

Pen grip, toy doll, stapler anti-slip
pad, utility knife grip, scissors grip,
paper clay.



06

產品介紹

Profucts



TOP-PELLET®發泡級

TOP-PELLET® Foam grade

TOP-PELLET® 發泡級材料具有高回彈性、延伸性、止滑性、低吸水性、質輕、易黏合及後加工處理等特色，可應用在鞋材、地墊、瑜珈墊、護具上，另有運用其吸震特性而開發出的吸震發泡材，擁有優異的吸震、防震、制震、低反撥彈性的能力，更同時富有強韌性、耐衝擊性可應用於各式運動護具、吸震鞋材及汽機車等人身部品，可依客戶需求開發客製化產品。

TOP-PELLET® 發泡級材料適用於模壓發泡、超臨界發泡、射出發泡、押出發泡等加工工藝。

TOP-PELLET® foam grade materials offer high resilience, elongation, slip resistance, low water absorption, light weight, easy adhesion and post-processing treatment. The materials can be applied to footwear, floor mats, yoga mats, and protective gears. In addition, owing to its shock-absorbing properties, shock-absorbing foam materials have excellent shock-absorbing, shock-proof, shock-suppressing, and low rebound resilience capabilities. Moreover, its high tenacity and impact resistance can be used in various types of protective sports gears, shock-absorbing footwear, personal protective gears for motorcycles and cars. Development services of customized products according to customer's requirements are available.

TOP-PELLET® foam grade materials are suitable for various forms of processing, such as compression foaming, supercritical foaming, injection foaming, and extrusion foaming.

特色

Properties



材料軟硬度範圍廣
Comprehensive hardness range
Shore C: 3C ~ Shore C: 60C



不吸水
Non water-absorbing
properties



易黏合及後加工處理
Easy to adhere and
post-process



發泡倍率可客製化
Expanding foam ratio is
customizable



良好的止滑性
Anti-slip properties



吸震佳
Excellent shock-absorbing
properties



高彈性
High elasticity



恢復性佳
Good deformation
recovery



輕量化
Light weight

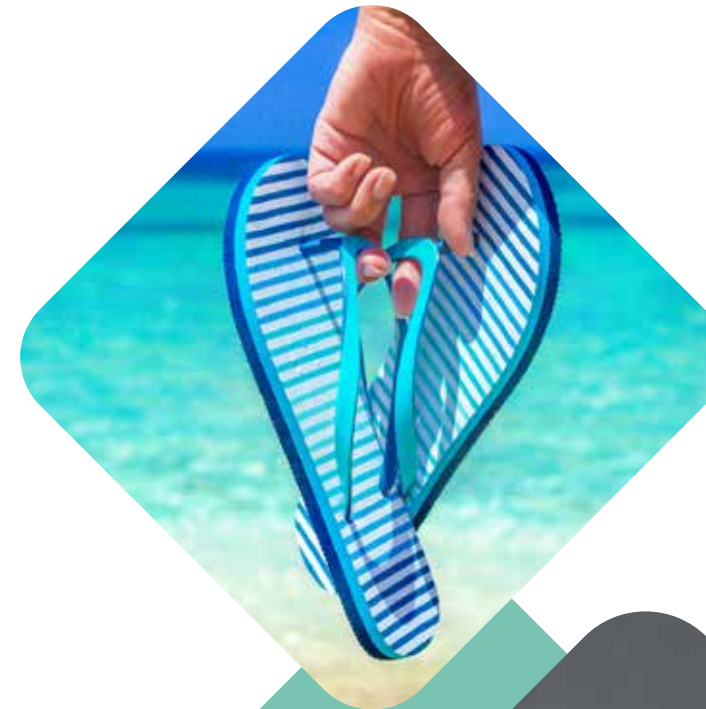
日常生活中的應用產品

Application in everyday products



可用於 EVA 鞋材改質，提升 EVA 鞋材的彈性與止滑性，適用於鞋材、地墊、瑜珈墊、護具、浮標等產品；吸震發泡材可用於運動護具、吸震鞋材及汽機車等人身部品。

It can be used for the enhancement of EVA footwear's elasticity and anti-slip properties. It is suitable for footwear, floor mats, yoga mats, protective gears, buoys and other products. The shock-absorbing foam materials can be used to produce protective sports gear, shock-absorbing footwear, and personal protective gears for cars and motorcycles.



產品介紹

Profucts



TOP-PELLET® 押出級

TOP-PELLET® Extrusion grade

TOP-PELLET® 押出級材料具有吸濕性低、於押出溫度的熱安定性高、粘度的溫度特性不會急速變化、具平衡的粘性與滑性不會引發滑動、押出後的形狀保持性佳等適合押出工藝的加工特性，可依客戶需求開發客製化材料，可廣泛用於瑜珈伸展帶、健身彈力繩、醫療止血帶、汽車用邊條、仿木欄杆、腳踏車煞車線套管、傳輸線...等產品生產製造。

TOP-PELLET® 押出級材料以 SBS/SEBS 為基底，其優越的加工性能，可有效解決高污染加硫橡膠系的高加工成本以及 PVC 耐寒性劣、製程中產生有害物質等問題；TOP-PELLET® 押出級材料在押出加工時不會產生有害物質亦可回收重複加工，富有環保與降低原料成本的加工優勢，符合 ROHS、REACH、California Proposition 65 等國際環保規範。

TOP-PELLET® extrusion grade materials have certain characteristics, such as: Low hygroscopicity, high thermal stability at extrusion temperature, viscosity temperature characteristics not undergoing rapid change, balanced viscosity and slipping properties that will not cause slips, and retains good shape after extrusion molding, thereby being suitable for extrusion processing. The materials can be developed according to the clients' customization requirements. They are widely used in the production of yoga stretch bands, exercise elastic ropes, medical tourniquets, vehicle trim strips, imitation wood railings, bicycle brake cable sleeves, and transmission wires, etc.

Based on SBS/SEBS thermoplastic elastomers, TOP-PELLET® extrusion grade materials offer excellent processing performance that can effectively solve the high processing costs and pollution issues for vulcanized rubber; while also address the poor resistance to cold weather of PVC and the toxic materials that are generated during its processing. TOP-PELLET® extrusion grade materials do not generate toxic materials during the extrusion process and can be repeatedly recycled for reprocessing, and offer processing advantages in environmental protection and cost reduction of raw materials. Furthermore, they comply with the international environmental protection regulations, including ROHS, REACH and California Proposition 65.

特色

Properties



可軟可硬，材料軟硬度範圍廣：
Shore A：25A ~ Shore D：75D
Can be either hard or soft. Comprehensive hardness range Shore A: 25A ~ Shore D: 75D



堅韌耐用
Excellent tenacity and durability



高彈性
Good elasticity



尺寸安定性佳
Good dimensional stability

日常生活中的應用產品

Application in everyday products



瑜珈伸展帶、健身彈力繩、擴胸條、醫療止血帶、汽車用邊條、仿木欄杆、腳踏車煞車線套管、傳輸線、門窗邊條、IC 管材。

Yoga stretch band, exercise elastic rope, chest exercise stretch band, medical tourniquet, vehicle trim strip, imitation wood railing, bicycle brake cable sleeves, transmission wire, door and window trim strip, IC tube materials.



產品介紹

Profucts



TOP-PELLET®吹膜級

TOP-PELLET® Film grade

TOP-PELLET® 吹膜級具有優良的耐候性、透氣、柔軟、止滑等特性，醫療級 TPE 薄膜可用於手術病人的身體覆蓋物、一次性醫用手套、手術洞巾、手術繃帶等。TPE 彈性薄膜的特點是環保、透氣、不沾黏、柔軟、防水、耐磨擦、不起毛、無靜電，外觀富有品味，具有良好觸感，可依客戶特定需求開發客製化產品。

TOP-PELLET® 吹膜級以 SEBS 作為基礎材料，其無毒的特性不會對人體組織產生過敏、變異、及排斥反應；氣密性佳、耐溫、耐老化性能，能使用高溫蒸煮和紫外線直接消毒，因此可作為醫療器材的基礎材料。外科手術手套、手術衣、輸液袋、止血袋等。

TOP-PELLET® Film grade materials have excellent weather resistance, permeability, softness and anti-slip properties. Medical grade TPE films can be used to cover the body of surgical patients, as well as the production of disposable medical gloves, surgical hole towels, surgical bandages, etc. The TPE elastic thin film are environmentally friendly, and offer permeability, non-adhesion, softness, waterproof, wear-resistance, lint-free, non-electrostatic properties. Elegant in appearance and good to the touch, blown film grade materials can be used for the development of customized products according to customer's specific needs.

TOP-PELLET® film grade materials are based on SEBS. They are non-toxic and will not cause allergy, responsive, and rejection reactions to human tissues. The materials exhibit good air tightness, temperature resistance, aging resistance, and can be directly sterilized using high temperature steam and UV. Therefore, such materials can be used as the base material for medical devices, surgical gloves, surgical gowns, infusion bags, and tourniquets.

特色

Properties



透氣
Permeability



防水
Waterproof



無靜電
Non-electrostatic



良好觸感及富有品味的外觀
Nice texture and stylish appearance



良好的止滑性
Anti-slip properties



柔軟
Soft



日常生活中的應用產品

Application in everyday products



手術病人的身體覆蓋物、一次性外科手術手套、手術洞巾、手術繃帶、輸液袋等。

Surgical drapes on patients, The disposable medical gloves, Surgical hole towels, Surgical bandages, Infusion bags, etc.





客製化服務

Customization

頂級複合材料研發團隊以專業的技術與熱誠的服務，提供客戶全方位的解決方案，藉由與客戶多向溝通，深入了解客戶需求，設計並開發適合客戶應用的產品，經由創新技術、共同研發、彈性製造、優良品管、全球服務等為顧客與合作夥伴提供最大的效益。若您有任何開發案、新點子或合作計畫，非常歡迎您來信洽詢，我們將由專人竭誠為您服務。

The research and development team at Ding Ji Polymer Co., Ltd. provide customers with comprehensive solutions by the means of professional technology and dedicated services. Through intensive communication with customers, the R&D team grasp in-depth understanding of customer's needs and engage in the design and development of products suitable for customer applications. Ding Ji Polymer Co., Ltd. maximize benefits for customers and collaborative partners through innovative technologies, joint research, flexible manufacture, excellent quality control and premium global services. Please feel free to write us regarding any development projects, new ideas or cooperation proposals you may have. We shall assign a dedicated staff to tend to your needs.

