



POLYFUL

ADVANCED MATERIAL

Hangzhou Polyful Advanced Material Co., Ltd.

杭州聚丰新材料有限公司

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Company Profile

Hangzhou POLYFUL Advanced Material Co., Ltd. (“POLYFUL”) is a high-tech company specializing in the research, development, production, and sales of high-end polymer products.

Established by the founding team of a listed company, POLYFUL has launched in-depth cooperation with the national key laboratory of Zhejiang University.

Aimed at the polymer materials sector, it is focused on the development of high-performance products in 5G communications, new energy vehicles, food and healthcare, and environmental protection and biodegradation. POLYFUL is primarily engaged in high-end modified materials such as modified polyolefins and engineering plastics, as well as special polymers, including biodegradable resin and high-performance electronic chemical materials, with product quality reaching the leading level in China.

Positioning and Strengths

Positioning: A technology-driven advanced materials company focused on high-end polymers

Strengths: R&D by university teams, support of national base, cost effectiveness, environmentally friendly, customization

Honors and Qualifications

Since its inception in 2018, POLYFUL has won a range of honors, including China High-tech Enterprise, China’s National Science and Technology Small and Medium Enterprise, High-tech Research and Development Center (Industrial) of Local Enterprise, and Local Eyas Enterprise.

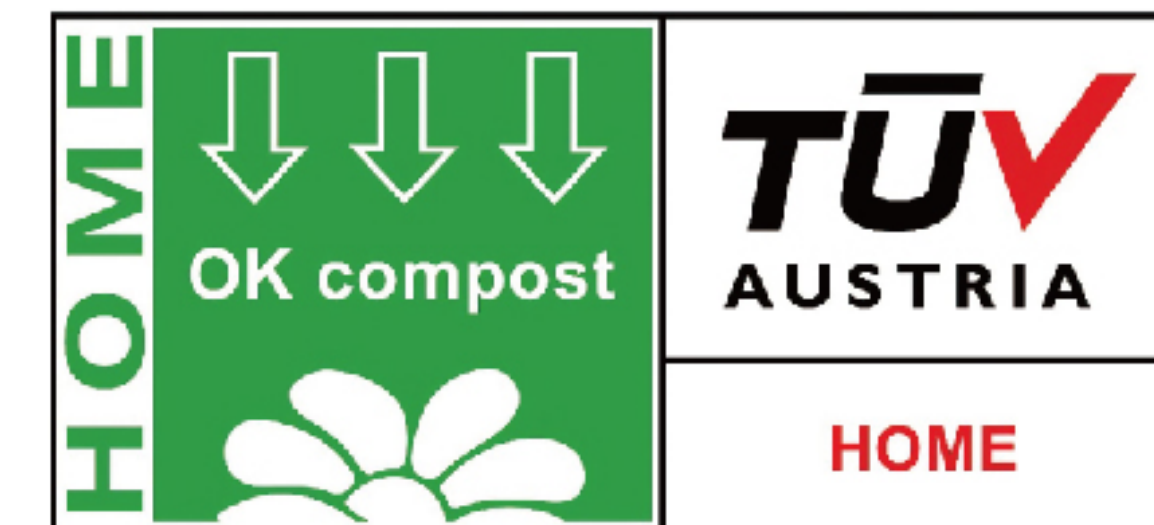
It has also obtained the certifications of IATF16949 international automotive quality management system and ISO9001 quality management system.

Experiment&Production Equipment



Enterprise Honors

Product Certifications



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Application



Polyurethane substrate SI-TPV

Smooth and skin-friendly with good antibacterial properties.
Non-sticky, non-ash-sticky, and sweat resistant. Excellent bonding with PC, ABS, PC/ABS, etc.
UV resistance, good heat resistance, good abrasion and scratch resistance, and good ageing resistant properties

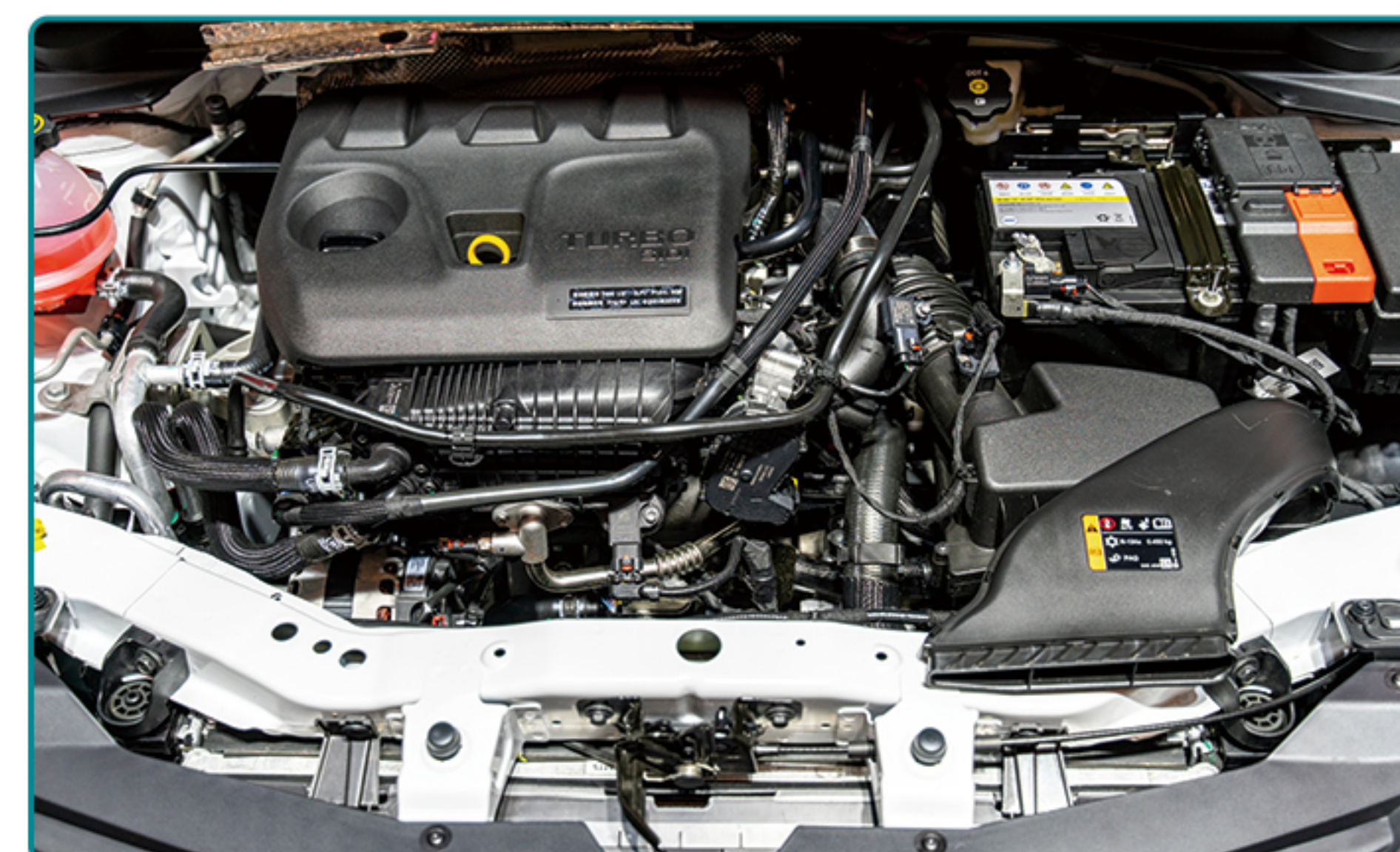
- Applicable for electronic product wrapping, smart wearable devices, secondary injection molding, sealing joint strip



Polyolefin substrate SI-TPV

Good tensile properties
Resistant to high and low temperatures and UV
Good wrap-around properties with PP

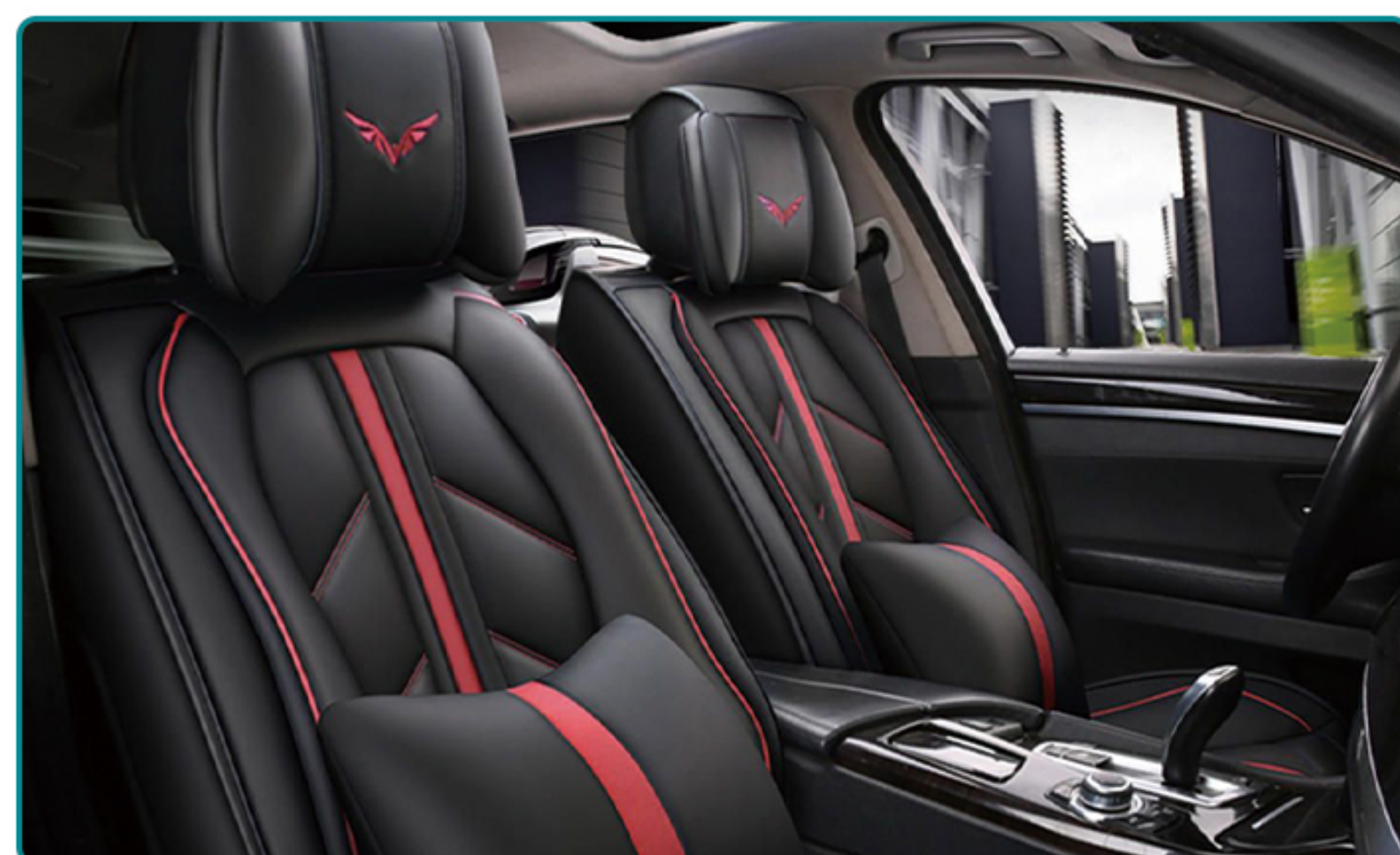
- Applicable for daily necessities, sports equipment, cosmetic packaging



Nylon substrate SI-TPV

High hardness up to 40-60D
Good tensile properties
Resistant to high temperature, chemical and oil

- Applicable to automobile brake pipe, brake pipe, buffer material



Artificial organosilicone leather

Reusable materials that are environmentally friendly
Excellent weather resistance
Easy coloring and excellent color fastness
Smooth hand feeling with good stain resistance by simple and efficient production process

- Applicable for outdoor furniture, soft package decoration, automotive trim

THERMOPLASTICS SILICONE ELASTOMERS



Overview

Thermoplastic silicone elastomer (SI-TPV) is a stable TPV polymer alloy formed by uniformly dispersing the vulcanized silicone rubber particles in a thermoplastic material through dynamic vulcanization crosslinking technology. Our company has its own intellectual property, which can bring stable and reliable new elastomer materials to customers.

The product can be molded by injection and extrusion to be used in electronic wear, laptop computers, mobile phones, headphones, plastic wrapping, baby products, and sealing field. Due to its light specific gravity and recyclability, it also has been widely applied in the automobile industry.

Category

Product grade	Performance characteristics
TP-3165, TP-3175	Flame-retardant elastomer, in accordance with GB 8410-2006 flame retardant testing standard, which is applicable for flame retardant environmental products
TP-3360, TP-3375	Used for extrusion, casting and other processing methods, applicable for making electric wires and cables, USB cables, artificial leather and other products
TP-3460, TP-3475	The antibacterial rate of Escherichia coli and Staphylococcus aureus reaches more than 99.9%, which is suitable for antibacterial products
TP-3560, TP-3575	Good resistance to short time stains, especially the short time stains such as chili oil, ketch-up, coffee, etc.
TP-3650, TP-3660, TP-3675	Used for PC, ABS, PVC and other polar materials with good covering performance, applicable for injection molding preparation of smart wearing, bracelets, secondary injection molding covering housing

Product advantages

The material has both the mechanical properties of rubber and the processing properties of thermoplastic plastics, with excellent properties such as high modulus, strength, and elasticity, as well as skin-friendly, non-ash-sticky, and recyclable.



Process with environmental protection

Odorless with no by-products and volatiles
No precipitates without fillers and plasticizers, recyclable materials



Diverse processing

Easy to wear bright colors, with high color fastness
Applicable for screen printing, transfer printing, painting and other secondary processing



Stable performance

Good weather and UV resistance
Good oil and chemical resistance
Good anti-yellowing property with no solvent oil



Smooth hand feeling

Silky feeling
Non-sticky, non-ash-sticky and sweat resistant



Good abrasion resistance

Silicone rubber can reduce the coefficient of friction of the product
TPU can enhance the abrasion resistance of the product



Good wrap-around properties

Used for secondary injection molding with PC, ABS and other plastics

Qualification

ROHS and REACH certified

GB/T 24128-2018/ISO 16869:2008 Evaluation of anti-mold effect

GB/T 31402-2015/ISO 22196:2007(IDT) Antisepsis performance test

GB 4806.7-2016 National Food Safety Standard

GB 4810-2006 Combustion characteristics of automobile interior materials up to class B

