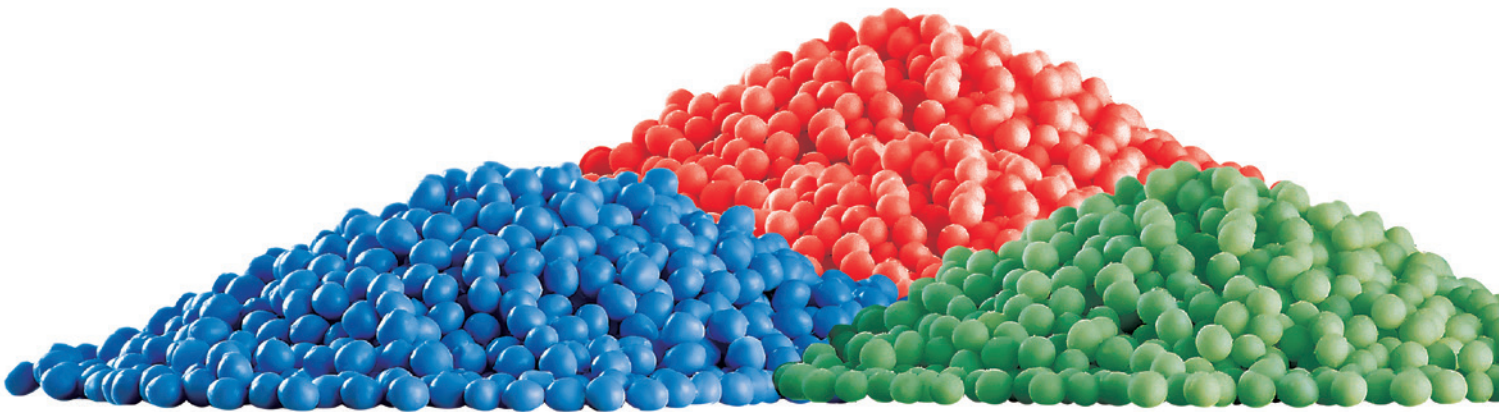


**PHOENIX** | Materialize Your Vision |  
Professional in TPE compounding



Our **ULTIMATE GOAL**  
is your satisfaction



### **Phon Tech – professional in thermoplastic elastomers (TPEs) compounding**

Established in 2005, Phon Tech has decades of knowledge on TPEs compounding, marketing, researching and formulation. We specialize in SEBS, SEPS based styrene block copolymer. The TPEs manufactured by Phon Tech are sold under the trademark PHOENIX™.

### **Innovation – constant research & development**

Our expertise will satisfy any of your requirements in TPEs. We can develop brand new material from particular customized products by decades of experience and know-how.

### **Quality – our first & consistent endeavor**

Quality of our PHOENIX™ TPEs is ensured by stringent control of incoming raw materials, process, online inspection and batch to batch testing of finished products. Our aim is to supply quality TPEs that customers could use stably and no need to worry about any defects.

Our laboratory is equipped with advanced testing facilities and all data is computerized, which we could keep track of material performance.

### **Service – true nature of our staff's passion**

Phon Tech staffs are all well trained and organized. Our service team has abundant knowledge and can provide seamless technical services. Our service department will truly convey feedback and requirements of customers to the R&D team.

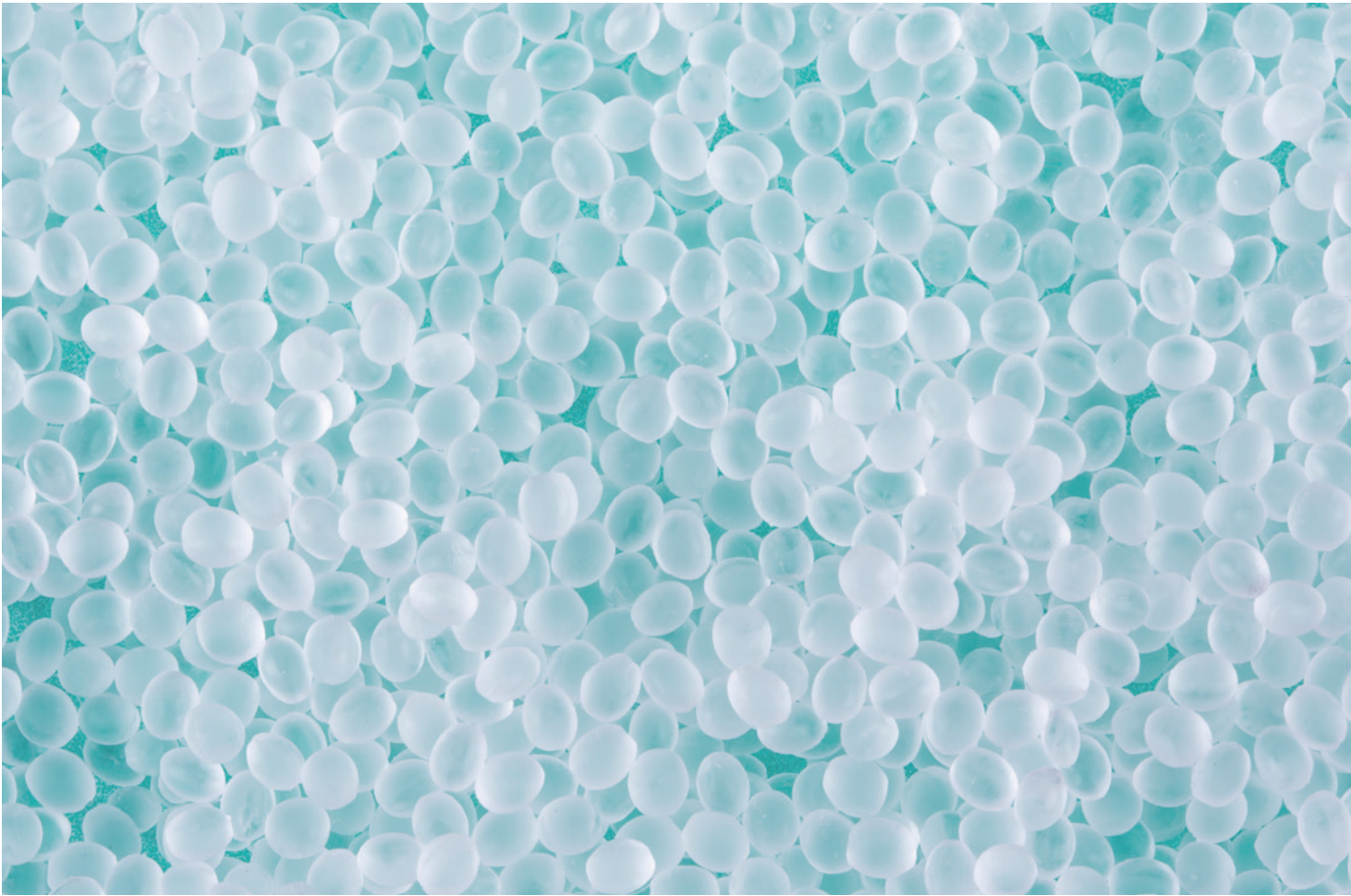


## What is PHOENIX™?

**PHOENIX™** is a fully saturated styrene block copolymer developed by PHON TECH™, which contains features of vulcanized rubber at normal temperature and plastics when heated. It means that once they are formed, they can be heated and reformed repeatedly. This property allows for an easy process and facilitates recycling.

### General Features of PHOENIX™

- Capable of applying standard plastic processing method, like injection, extrusion, and blow molding.
- No vulcanization is needed. Energy saving, reducing cycle time, and increasing production efficiency.
- 100% recyclable and environmental-friendly.
- Rubber like texture and feel
- Lightweight
- Non-toxic
- Odorless
- Softness
- Anti-slip
- Excellent UV stability
- Excellent tensile and tear strength
- Resistant to acid, base, alcohol
- Excellent brittle temperature (-50~-60°C)



**PHOENIX™** has been used in a wide range of markets and applications. The features and benefits of PHOENIX™ allow the customer to design products without limit. They can be hard or soft. They can bond to a variety of engineering thermoplastics. They can be sleek, silky, opaque, transparent and colorful. Our expertise makes PHOENIX™ even more flexible.

All product series of PHOENIX™ are RoHS & REACH SVHC compliant, PAHS and phthalate free. Most of the series also conform to EU directive 2003/53/EC of having Nonylphenol less than 0.1%.

### **PHOENIX™ Transparent Grade**

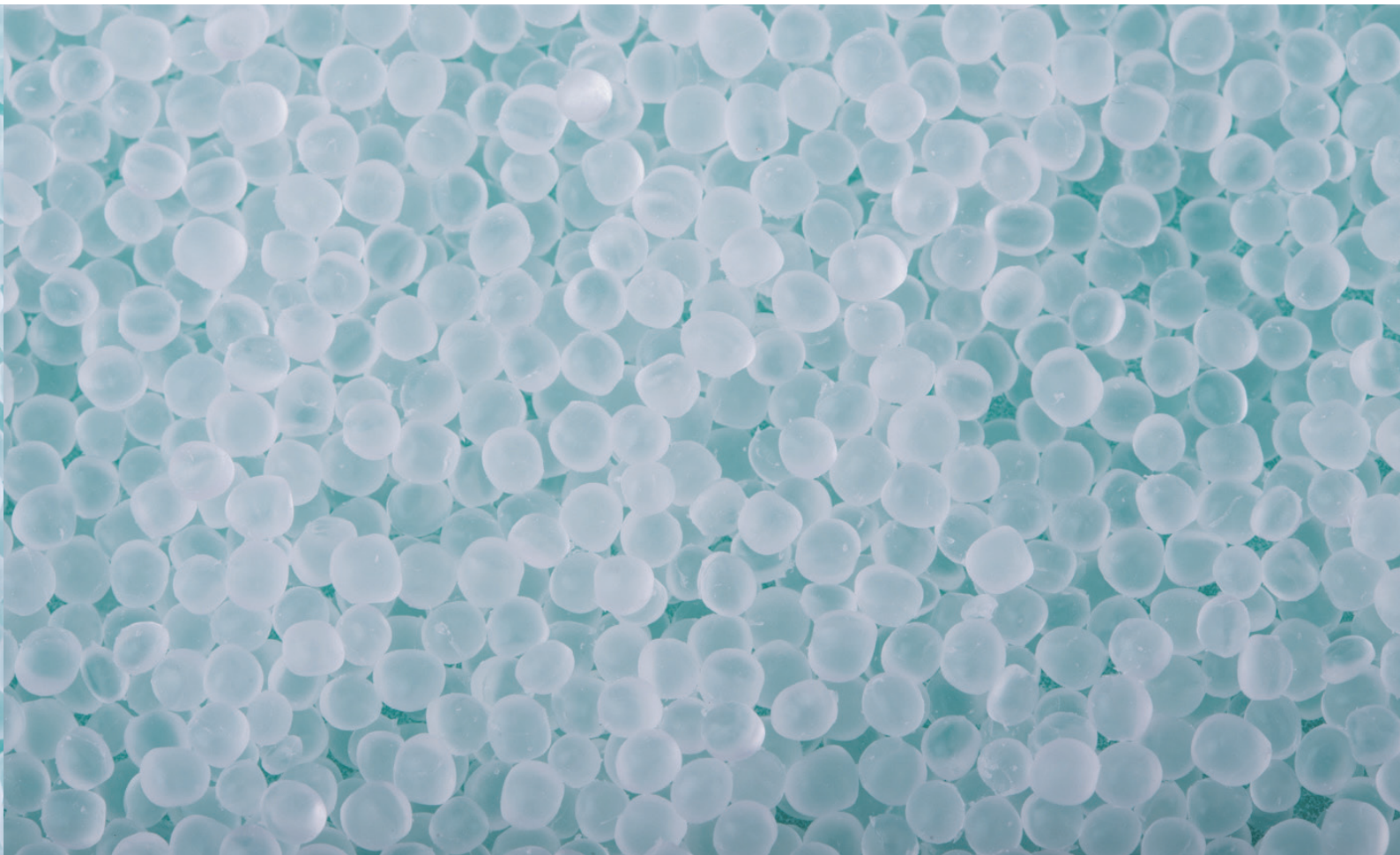
*Applications: Appliances, Medical appliances, Sports, Stationery.*

#### **01 series (Shore A 5~80)**

Excellent elasticity. RoHS compliant. Conform to FDA. Suitable for shoes insoles, medical tube, pen grip, toothbrush grip, fish bait.

#### **05 series (Shore OO 15~40)**

Extra-soft. Excellent elasticity. RoHS compliant. Conform to FDA. Suitable for rehabilitation ball, medical mat, foot care, fish bait.



## **PHOENIX™ Translucent Grade**

*Applications: Appliances, Automotive, Consumer products, Medical appliances, Sports, Stationery, tools, Toys.*

### **02 series (Shore A 20~95)**

Excellent scratch resistance. Bonding with polypropylene. RoHS compliant. Conform to FDA. Suitable for tools grip, toothbrush, pen grip, stationery, consumer products.

### **03 series (Shore A 15~90)**

Very excellent tear and tensile strength. Bond to polypropylene. RoHS compliant. Conform to FDA. Suitable for syringe stopper, medical caster, nose attractor, gasket, cap liner, sports, etc.

### **04 series (Shore A 10~90)**

Low melt flow index. RoHS compliant. Conform to FDA. Suitable for tube, profile, sheet, film extrusion, cable and wire sheath.

*The above grades are all fully hydrogenated SEBS. They all have excellent and stable physical properties. Easy processing and colorability. Soft, anti-slip, scratch resistance, excellent elongation, excellent tensile strength (depend on hardness), excellent weather resistance, UV stability, and o-zone resistance.*



## **PHOENIX™ Black Color Grade**

*Applications: Appliances, Sports, Stationery, Tools, Toys.*

### **07 series (Shore A 15~95)**

Fully hydrogenated SEBS. Adhesion with polypropylene. Stable physical property. Anti-slip and good weather resistance. Easy to color and process. RoHS compliant. Suitable for screwdriver grip, bike grip, knife grip, toys, pen grip, syringe gasket.

### **09 series (Shore A 15~95)**

Semi-hydrogenated, SEBS+SBS. Adhesion with polypropylene. Anti-slip, easy to color and process. Economical. RoHS compliant. Suitable for garden tool grip, screwdriver grip, bike grip, knife grip.



## **PHOENIX™ White Color Grade**

*Applications: Appliances, Consumer products, Sports, Stationery, Tools, toys.*

### **06 series (Shore A 15~95)**

Fully hydrogenated SEBS. Adhesion with polypropylene. Stable physical properties. Anti-slip and good weather resistance. Easy to color and process. RoHS compliant. Can be applied to screwdriver grip, bike grip, knife grip, toys, pen grip, razor grip, toothbrush grip, container seal, etc.

### **08 series (Shore A 15~95)**

Semi-hydrogenated, SEBS+SBS. Adhesion with polypropylene. Anti-slip, easy to color and process. Economical. RoHS compliant. Suitable for garden tool grip, screwdriver grip, bike grip, knife grip, pen grip, toothbrush grip.

# Medical





### **PHOENIX™ PIR Grade**

*Applications: Garden tools, Industrial, Power tools, Sports.*

#### **10 series (Shore A 30~90)**

PHOENIX™ PIR Thermoplastic Elastomers contain scrap generated from within the material extruder facility and post-industrial recycled content. This product family utilizes fully the wastes generated from the industry and cuts the carbon footprint to make the material more environmentally friendly and sustainable. Materials are available in black or dark color only.

### **PHOENIX™ Alloy Grade**

*Applications: Automotive, Construction, Electronics, Electrical equipment, Power tools .*

#### **12 series (Shore A 20~95)**

White color. Excellent adhesion to PC, ABS, PC+ABS, PA. Soft touch, anti-slip and easy coloring. Good tensile strength. RoHS compliant. Suitable for electrical tools, pneumatic tools, mouse, electronic equipment.

#### **16 series (Shore A 45~95)**

TPV+SEBS based. Higher heat resistance and good surface finish. Suitable for window seal, extrusion profile, automotive parts, syringe gasket.

#### **17 series (Shore A 45~95)**

PP+EPDM based. Dynamic vulcanized TPE. Excellent heat resistance and matt finish. Excellent dynamic fatigue performance and dielectric strength. Suitable for automotive parts, window seal, hand tools grip, etc.

### **PHOENIX™ FR Grade**

*Applications: Electrical parts.*

#### **18 series (Shore A 65~95)**

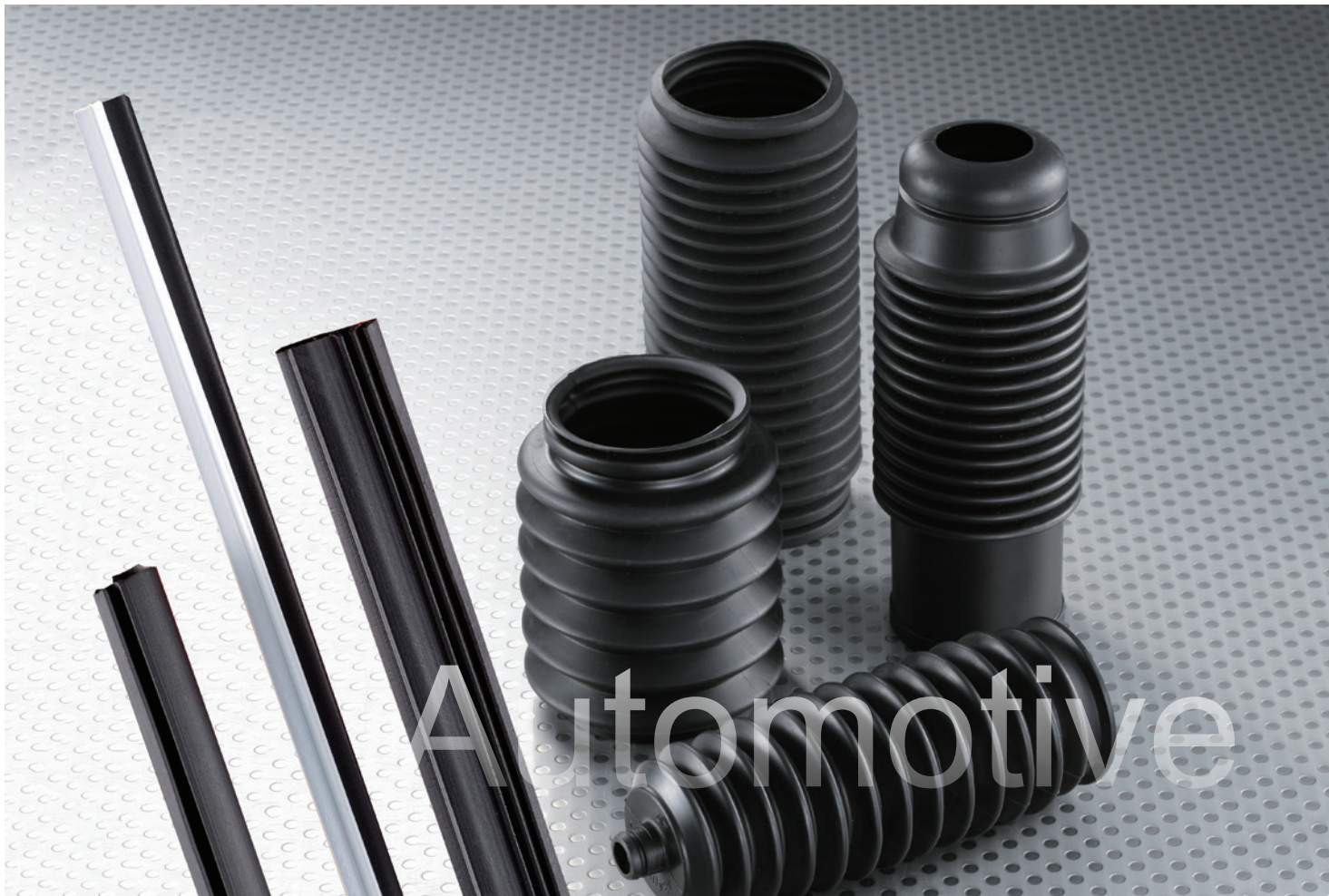
SEBS based. Halogen free flame retardant according to IEC 61249-2-21. Conform to UL 94 HB-V0. Low smoke. RoHS compliant. Suitable for wire connector, cable head, wire and sheath, connector, etc.





Consumer Goods





## **Applications of PHOENIX™**

**Automotive :** Weather seal, Glass run channel, Gear shift grip, Switch knob, Horn pad, Airbag door, Air guide, Car mat, Windscreen wiper, CVJ boots, Cup holder.

**Construction:** Co-extruded window seals, Door sweeps, Water sealing systems, Expansion joints, Waterproof membrane.

**Consumer Products :** Toothbrush, Razor grip, Kitchenware, Stationery, Garden tools, Container seal, Cap liner, Anti-slip mat, Insole, Refrigerator seal, Shower head, Clothespin pad.

**Electrical & Electronic goods :** Headset wire sheaths, Charger wire sheaths, Laptop pad & Feet, Mouse grip & Wheel, Antenna sheaths, Soft touch knobs, Wire Connectors, Cable head, Wire & Sheaths.

**Industrial :** Tools grips, Caster, Static or dynamic bumper, Safety goggles & masks, Ear plugs.

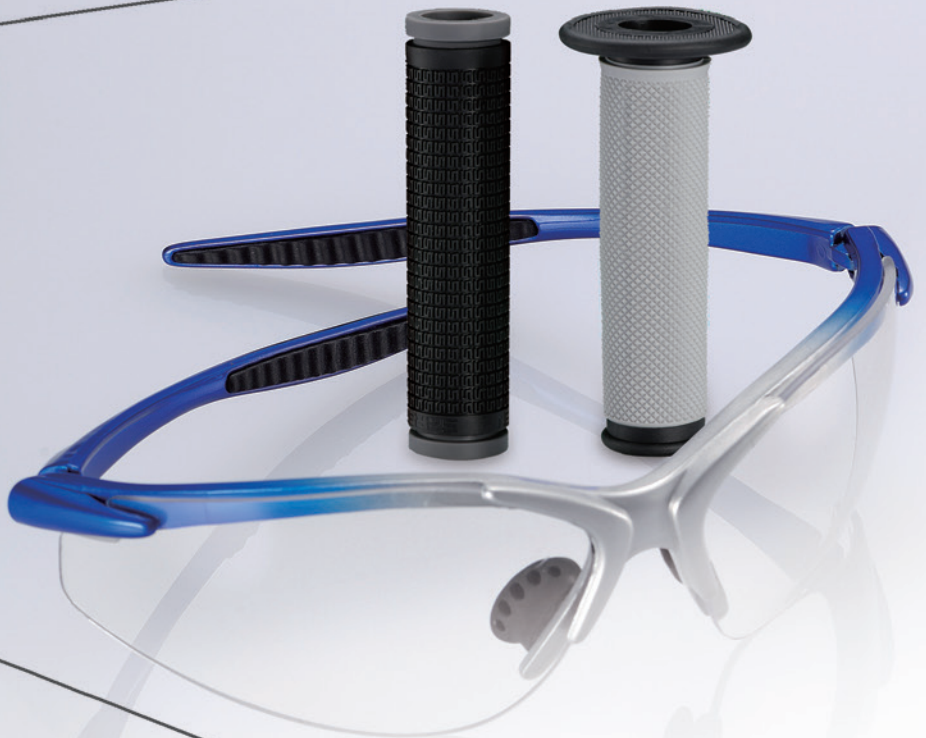
**Medical & Pharma:** Medical tube, Syringe gasket, Medical caster, Tourniquet, Oxygen mask, Resuscitator, UBT, Cap seal.

**Sports & Leisure :** Bicycle grips & pedals, Hiking stick grip, Swimming goggle seals & Strips, Fins & Snorkels, Knee protectors, Golf rod handle, Chest expander, Soft ball, Pilates & Exercise band, Sunglasses frame & nose pad, Fish bait, Pool table bumpers, Flying disc.

**Toys & Baby Products :** Toy car tires, Ink stamps, Sticky toys, Teething, Baby utensils.



# Sports & Leisure



## ***PHOENIX™ is Your Best Solution***

Cordially hope that our products can help you achieve efficient production and quality requirement. Through our professional and enthusiastic service will provide added value to the products. Custom made is welcome. Looking forward to the inquiry and we will provide our best solution to cater to your requirements.



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*Professional in TPE compounding*