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SUNGALLON[®] MANUFACTURER OF THE GALLONPRENE[®] SOLUTIONS IN SOFT TOUCH MATERIALS

盛嘉伦微信公众号

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COMPANY PROFILE

 $\mathsf{SUNGALLON}^{\textcircled{0}}$ — MANUFACTURER OF THE GALLONPRENE 0 SOLUTIONS IN SOFT TOUCH MATERIALS

Sungallon is a new high-tech enterprise specialized in the promotion and production of application tailored soft synthetic rubber compounds of the Thermoplastic Elastomers (TPE's) group of polymers.

We have witnessed and participated in the development of China's TPE industry. With many years of formulation experience, Sungallon has been promoted to one of the largest and best manufacturers of thermoplastic elastomer compounds.

Our customers use our Gallonprene TPE's to produce consumer goods, technical industrial products, automotive parts as well as medical products.

When formulating a customer solution, we rely on our extensive empirical experience. This is supported by our large R&D team as well as know-how of Regulatory restrictions in many application areas. Sungallon has established joint research centers and practice bases with a number of scientific research institutions at home and abroad, continuously absorbing the latest of the world's most advanced technology.

Safety, friendliness, legal compliance is the premise of our industry, Sungallon is not only committed to product development and quality selection, but also focus on product promotion and application; We ensure the meticulous care of the whole process from raw material procurement, manufacturing process, packaging, storage and transportation, and expect flawless perfection; Close to the market, we better understand customer requirements for a balance between performance, cost and efficiency.

Our production base is equipped with a full range of modern twin-screw extruder production lines, and the actual production capacity has exceeded 30,000 tons/year, which can continuously provide customers with competitive value-added products, and can also be customized for customers' special products and special environments. Efficient and fast logistics channels and technical support teams can cover industrial cities around the world.

Behind the brand, is the concentration of capital and technology, is the integration of modern management culture and management ideas; Sungallon will be tirelessly committed to the research, application and promotion of thermoplastic polymer materials; We care about humanities and the environment, ensure health, and prudently operate to ensure profitability and growth for the benefit of our users, employees, investors and society at large



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TPE TPR

盛嘉伦河源产业园

MANUFACTURER OF THE GALLONPRENE[®] SOLUTIONS IN SOFT TOUCH MATERIALS

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STREET, BALL



Exhibition Hal



Part of the Hevuan Production Area



Sample Room





2 TPE INTRODUCTION SUNGALLON[®]—MANUFACTURER OF THE GALLONPRENE[®] SOLUTIONS IN SOFT TOUCH MATERIALS

Thermoplastic elastomers (TPE), sometimes referred to as thermoplastic rubbers, are a class of copolymers or a physical mix of polymers (usually a plastic and a rubber) that consist of materials with both thermoplastic and elastomeric properties.

TPE's can replace PVC and traditional rubber and silicone rubber.

It provides broad space for tailored new product development and is a magic weapon in the hands of product designers.

2.1 What is TPE?

TPE (Thermoplastic Elastomer) is a kind of elastomeric raw material, which has the features of high resilience, high strength, available in a wide hardness range. Suitable for a wide range of applications. non-toxic and safe, and excellent colorability.

It exhibits soft touch, weather resistance, fatigue resistance and temperature resistance. It's easy to process, no need to vulcanize, can be recycled to reduce costs and carbon emission

Specific products can be over-molded onto PP, PE, PC, PS, ABS, AS, SAN, PETG, PCTG, PMMA and other basis materials, but can also be molded separately.

2.2 Classification

- 1.Polymer types, prepared by reactor, such as TPA, TPU, and TPEE
- 2.Polymer blends, prepared in a compounding operation such as TPS and TPV.
- a.Note that In China we call TPS-H TPE (based upon SEBS)
- b.TPS-N (based upon SBS) we call TPR.

2.3 Processing

Like thermoplastics, TPE are processed by injection molding, extrusion and casting. Since TPE's under certain conditions adhere to harder substrates, they can also be overmoulded and co-extruded.

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2.4 Advantages

TPE material generally show many advantages:

- 1 Adjustable hardness; from gel like hardness (Shore OO grades) to medium hardness (Shore A range) to Hard vulcanized rubber like grades (Shore D range)
- 2 The benefit of using thermoplastic elastomers is the ability to stretch to moderate elongations and return to its near original shape creating a longer life and better physical range than other materials.
- 3 TPE material is easy to process and shape, can be manufactured into various shapes by injection molding, extrusion, blow molding or casting. It can also be combined with other materials by overmolding or co-extrusion. TPE' s can also be thermal welded.
- 4 TPE materials exhibit good cold resistance with brittle points below −50 °C and continuous use temperatures over 70°C.
- 5 TPE materials have, depending upon the polymer base, good chemical resistance to most daily chemicals at room temperature and limited immersion times.
- 6 Some TPE materials have excellent wear resistance. These products are widely used in automotive parts, industrial products, such as castors.
- TPE materials are thermoplastic materials and can be 100% recycled, without significant property loss. Reducing cost and waste generation.
- (8) TPE's are easy to color using a pigments or universal color masterbatches.
- **9** The haptic of TPE's can be adjusted from silky smooth for watch straps to vibration dampening grippy for power-tool handles.
- **10** TPE materials usually do not contain toxic and harmful substances, comply with the relevant environmental protection and safety standards.

2.5 Application Areas

Consumer Goods: TPE materials wide range of properties and allows for new designs of toys, stationery products, household articles and beverage packaging.

Automotive Parts: Plastic materials have always played a major role in Automotive weight reduction. TPE material now replace traditional rubber products and contribute to a softer user experience.

Industrial products: TPE materials durability allows for industrial product applications with a long lifespan. They can also bring shock absorption, soft touch, electrical insulation, sealing and flame retardancy performance.

Medical products: TPE material is biocompatible and can be sterilized and are therefore widely used in medical devices and drug packaging, such as medical hoses, seals, handles, tourniquets, dropper, bottle stoppers, etc.

In short, due to the TPE wide range of properties, these materials can be used in a wide range of applications in many different fields.



APPLICATION SCENARIOS SUNGALLON[®] MANUFACTURER OF THE GALLONPRENE[®] SOLUTIONS IN SOFT TOUCH MATERIALS





Consumer goods

Automotive supplies





Industrial supplies

Medical supplies

Regulatory approval that Sungallon can comply with in the various industry segment, such as FDA, EN71, REACH, etc.

3.1Consumer goods

TPE has the features of safety, environmental protection, weather resistance and comfortable feeling, and is replacing PVC and traditional rubber and silicone rubber in the consumption field.



Toys

 Children's toys: baby teether, soft doll, toy car, sticky ball, water balloon, malt gumming toys, spider, gecko and other doll toys, doll skin, swing, etc.
 Adult products: artificial skin, etc.

Pet toys: pet flying saucer, pet toy ball, dog bones and so on.
 Leisure and entertainment: artificial bait, chip coins, etc.



Stationery

Soft touch sleeve, pen holder, eraser, folder, stationery scissors, stapler nonslip pad and head case, pencil case, utility knife handle, writing pad, etc.

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	-	

Furniture and general purpose

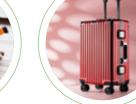
3D printing silk, chest expander, resistance band, O-type grip device, R-type grip device, jump rope handle housing, 8-figure puller, softball bat, golf club, table tennis bat, finger pressure board, running machine, foot massager, facial beauty device, stroller, bicycle, wheelbarrow, scooter handle housing, skateboard brake pads, wearresistant silencer casters, sandals, rain shoes, raincoat, frog shoes, diving goggles, sea drifting equipment, pillow, female underwear, coating of oxford cloth, non-woven tent cloth, bag, lining, sanitary napkins and diaper, clothes rack housing, knee sheath, shoe material, yoga mat, floor mat, non-slip mat, heat insulation mat, table cloth, mosquito repellent bracelet, massager, electronic cigarette, cosmetic brush, perfume bottle cap gasket toothbrush handle, comb grip, gloves, water cup jacket, sealed bag, washing basket, food container seal cover pad, folding cutting board, folding garbage can, folding foot bath tub, folding vegetable basket, washbasin, folding bathtub, scrub towel, shower curtain, face mask, deodorant drain, dish soap nozzle, hand sanitizer bracelet, toilet brush head, baby bottle handle housing, children's tableware handle, food box, food container cap gasket, kitchen utensils handles, non-slip insulated covers for food containers, egg bars, hair dryers, shaver handle housing, electric irons, electric toothbrushes, water pipe, suction cup, luggage caster, luggage over-molded handle, luggage zipper head, over-molded chopping block, etc.

Beverage packaging

1, TPE foam bottle sealing plug2, Juice drink bottle cap gasket3, Beer bottle cap gasket4, Bottle caps









Baby teether

Toy car tires Luggage casters and

Eraser







Leather shoes sole

Cosmetic brush head and Yoga mat and expander handle

nder Wine sealing plug









Application example: The beer

GP210-7522 material from

Juice drink cap

Food jar lid



The market development of TPE cap gasket materials in injection molding to replace silicone rubber plug products and molded cap to replace PVC bottle cap materials is expected in the future.

(1) Safety and environmental protection: do not contain plasticizers and vulcanization additives, will not be harmful to the body, comply with the requirements of food grade standards, can be recycled, will not cause secondary pollution of the environment;

(2) Strong designability: can be injection molding, molding processing, strong product designability, meet the diversified requirements of bottle cap design, TPE bottle cap materials can be customized for anti-theft cover and inkjet anti-counterfeiting products;

(3) Excellent performance: It can be firmly combined with various bottle cap materials, pressure and temperature resistance requirements can be customized according to product requirements, and product stability is excellent.



3.2 Automotive supplies

The TPE compounds developed by Sungallon for the automotive industry have a broad market. Our product is dedicated to meet the requirements of interior and exterior trim. If necessary, we can modify the material specifications to meet the unique requirements of our customers.

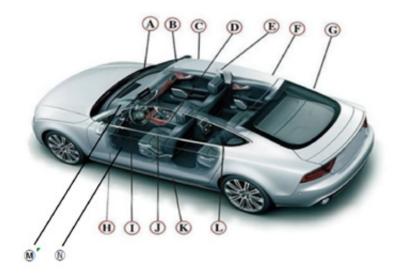
Automotive interior trim

1. Airbag cover

- 2. Gear sleeve and handle
- 3. Steering wheel sheath
- 4. Cable jacketing

Automotive exterior trim

Car dust cover, wiper blade, injection molding foot mat, blister foot mat, coating foot mat, front windshield seal frame, front windshield sealing strip, roof layering, sunroof seal, roof mouldling, rear windshield trim, side strip, interior glass run channel, exterior glass run channel, carpet layering, triangle window lace, car coaster, car antenna, bumper, fender, wheel cover, luggage rack gasket, luggage seal, ventilation pipe, air conditioning hose, etc.



A. Front windshield seal frameB. Front windshield sea1ing stripC. Roof stripD. Gear guardE. Sunroof sealing strip

F. Roof mouldling
G. Rear windshield trim
H. Side strip
I. interior g1ass run channe1
J. exterior glass run channe1

K. Carpet 1ayeringL. Triangle windowM. Windscreen wiperN. Foot mat







Airbag cover



Car steering wheel sheath

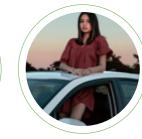
vehicle's gear sleeve and handle

Windscreen wiper









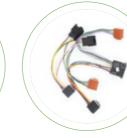
Car foot mat

Front windshield seal frame Sunroof sealing strip

Front windshield sealing strip



Front windshield lace



Cable jacketing



Roof mouldling



Application example: Car foot mat are made of GP520-85BK-2 or GP520-90BK or GP520-80BK plus GP520-85BK from Sungallon.

Product features:

(1)Weather resistance and UV resistance
(2)Wear resistance
(3)Efficient multi-component injection molding, excellent over-molding properties for PP, ASA, PC, PC/ABS and PMMA
(4)Excellent surface quality

(5)Low VOC

(6)Environmental protection products, in line with REACH, ROHS, polycyclic aromatic hydrocarbons, nonylphenol and other environmental requirements. The products can be recycled

(7)Comply with the requirements of UL94 V-0 flame retardant specifications

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3.3 Industrial supplies ٠

Sungallon is committed to developing special TPE products for industrial applications. Our compounds offer added value to our customers while complying with international standards such as flame retardant, UV resistance and food contact, etc.

Electrical and Electronic

The main product applications are:

1. Cable jacketing and joint seal: mobile phone charging cable, USB data cable, headphone cable, network cable, power cord, charging pile line and other low-power cables, plugs, connectors, flame retardant cable and wire harness, etc.

2. Equipment shell, keys, contact sealing and anti-slip, anti-shock and noise reduction: dynamic high-grade audio equipment shell, MP4, memorizer, mobile phone shell, mobile phone bracket, camera, digital camera, digital camcorder, computer keys, DVD player, video game equipment, game console, headset, router, wireless data transmission terminal equipment, mouse wheel, mouse pad, electrical bracket/base, electronic wristbands, smart watches, electronic dictionary, Handheld learning machine, etc.

3. Switch: car start-stop switch, window lift switch, center control panel switch, window adjustment switch, rearview mirror adjustment switch, seat adjustment switch, remote control.

4. Uav: UAV handle, UAV flexible body and chassis, UAV ground support and landing support (antifall), UAV propeller (anti-vibration).

Tools and Equipment

The main product applications are:

1, handle housing: electric saw, drill, garden scissors, screwdriver, stationery scissors, scraping trowel, vise, hand saw, wrench, hammer, cutter, etc.

2, measuring equipment button housing, shell, power plug jacketing, cable jacketing: universal electric meter, laser rangefinder, voltage tester, incubator, oven, shaking table, aging equipment, thermometer, thermocouple, thermal conductivity instrument, thermoelectric balance instrument, electronic scale, projector, coordinate measuring machine, spectrophotometer, infrared spectrometer, gas chromatograph, liquid chromatograph, mass spectrometer, ion chromatograph, gas detector, water quality analyzer, sound level meter, water level meter, spectrum analyzer, stopwatch, electronic timing and charging device, quantitative packaging machine, total station theodolite, 3D laser scanner, spectrometer, microscope, oscilloscope, mechanical testing machine, hardness tester, etc.

Drinking water valve

The main product applications are: shower head, watering system.

Kitchen appliances

The products are used in buttons, seals, shock-absorbing pads, shells, cables, plugs and containers: high-speed blender, refrigerator, gas stove, microwave oven, electric oven, induction cooker, kitchen hood, disinfection cabinet, dishwasher, egg steamer, electric rice cooker, juicer, water heater, electric kettle, electric pressure cooker, water purifier, electric steamer, etc.

Building construction

The main applications are: door and window profiles, pipe protective covers, plastic runways, air conditioning water hoses, waterproof connection tapes, water hose joints, waterproof coils, water filtration systems (rainwater collection systems, underground space storage systems, separate drainage systems), ventilation systems, etc.

Home appliances

The design diversity of TPE materials can be applied in most home appliances, mainly used in overmolding parts, seals, water hoses, shock-absorbing pad, anti-collision strips, etc., due to the complexity of processing and high labor costs, TPE is gradually replacing the original part of the rubber market.

The main application products are: sweeping robot, blender, coffee machine, light wave stove, water dispenser, air conditioner, electric fan, air purifier, humidifier, dehumidifier, heater, small freezer, air circulation fan, electric water heater, bath master, washing machine, dryer, electric hair dryer, radio, TV, set-top box, etc.









Mobile phone case

USB cable jacket Buttons and case of remote control

Mouse wheel, mouse pad





Electronic wristband and

kev





Suction cup for phone

holder

Uav fuselage, propeller, Ground support, landing support



Electric drill handle









Buttons and shock-













Connector housings







Refrigerator profiles and

ice tray



Electric rice cooker

handle, keys, cover, and inner ring



Floor brush, anti-collision strip, top cover, seal ring and button of sweeping robot

Doors and windows profiles





Plastic runways mat



Air conditioning drain hose installation

Washing machine barrel body, Coffee machine handle. seal ring, cushioning pad, power cushion and button cord, aqueduct, return pipe





Blender shock absorbing pad, button, seal ring, lid and handle



Floor brush, anti-collision strip and handle of vacuum cleaner



button and coffee cup bar

Product features:

- (1) Comfortable and non-slip (2) Noise reduction (3) Personalized appearance and versatility
- (4) Food grade contact requirements
- (5) Chemical resistance
- (6) UV resistance



We offer medical TPE custom solutions to help you design advanced medical technologies. Our raw materials are of superior quality, hygienic, stable and biocompatible, helping us to work wonders for our customers with chemistry. These compounds provide high quality material solutions and comply with cytotoxicity ISO10993 PART5 & PART10 Cytotoxicity and anaphylaxis requirements.

These special TPE products have the following features:

- 1. no heavy metals and phthalates, no latex and PVC
- 2. translucent or transparent
- 3. can be disinfected and sterilized

Advantage

Our TPE materials are medical grade, compliant, clean and pure, and meet process safety standards.

(1) The special bacteria-repellant structure formula passed ASTM WK66122 test, and the bacteriarepellant rate reached 99.999%

- (2) Durability and flexibility
- (3) Excellent resealing performance

(4) Can be processed by injection molding and extrusion process

(5) Through multi-component injection molding, over-molded onto polyolefin (PP, PE, COC, COP)

and engineering plastics (such as ABS, PC, PET-G and polyamide)

- (6) Low friction, high elasticity
- (7) Excellent compression deformation characteristics
- (8) High transparency and pre-coloring options

Medical Engineering

TPE is playing an increasingly important role in the field of smart healthcare and medical devices. The thermoplastic elastomer is ergonomic, cost-effective and has superior design function.

The main products are: medical surgical cloth, surgical gloves, disposable tourniquet, injection syringe, infusion tube, drip bucket, medical mask, film, hose, braces, waterproof medical instrument box, operating table pad, and so on.

Medical diagnosis

Application products: blood analyzer, blood pressure meter, biochemical analyzer, medical imaging instrument (X-ray machine, CT scanner, nuclear magnetic resonance instrument, ultrasonic detector), electrocardiograph, biological microscope, medical hose, audiometer, stethoscope, etc.

Drug packaging

The pharmaceutical packaging developed by TPE is robust and resistant to light, heat, moisture and biological contaminants, suitable for pharmaceutical storage, and is specifically designed for the industry.





Seal ring, separator and fastener of waterproof medical instrument box



Braces



Stethoscope signal cable and earplugs



Medical reagent bottle







Infusion valve, infusion tube, drip bucket and needle cap of infusion set



Disposable tourniquet elastic band, press button, anti-loosening Operating table pad



Blood pressure monitor button and wristband

cap, bracket and tension valve



Surgical gloves

Ultrasonic detector button, signal cable,

probe, plug

Medicine seal bag

Medical hose



Medicine packaging bag – blister pill box



Spring medicine box

Product features:

(1) Excellent sealing, high elasticity, tear resistance. (2)Comply with cytotoxicity ISO10993 PART5 & PART10 Cytotoxicity and anaphylaxis requirements.

(3)The special bacteria-repellant structure formula passed the ASTM WK66122 test, and the bacteria-repellant rate reached 99.999%. (4)100°C high temperature boiling does not deform color does not migrate.

PRODUCT CATALOG

SUNGALLON[®]—MANUFACTURER OF THE GALLONPRENE[®] SOLUTIONS IN SOFT TOUCH MATERIALS

Transparent Series	GP100	GP200	GP	210	
Base Resin	SBS SEBS, SEPS		SEBS,	SEPS	
Hardness Range	5A to 70D 700 to 50A		10A t	o 60D	
Original Color	Transparent	Transparent	Translucent		
Application	Toys	Adult products		, Baby toys, Food eal	
Overmolding Series	GP	310	GP	320	
Base Resin	SEBS	, TPU	SE	BS	
Hardness Range	40A t	o 90A	40A t	o 90A	
Original Color	Wł	nite	Wł	nite	
Application		wer tool handle, tive trim	Tool h	andles	
Oiling Series	GP	410	GP	420	
Base Resin	SE	3S	SI	3S	
Hardness Range	10A t	o 95A	10A t	o 95A	
Original Color	Wł	nite	White		
Application	Тоу	dolls	Toys, Shoe material		
Universal Series	GP510	GP520	GP540	GP550	
Base Resin	SBS	SEBS	SEBS	SEBS	
Hardness Range	10A to 95A	10A to 95A	55A to 95A	45A to 95A	
Original Color	White	White	White	White	
Application	Toy tire leather, Handle, Sheet gasket	Toothbrush, Castor wheel, Ice trays, Toy tires, Mat, Electric button, Automotive trim	Cable jacketing	Extruded Profiles	
Functional Series	GP	610	GP640		
Base Resin	EP	DM	SEBS		
Hardness Range	40A-90A		60A to 95A		
Original Color	White		White		
Application	Heat-resistant sealing strip		Electronic appliances		
改性树脂 /Modified Resin	GP920				
Base Resin		P			
Hardness Range	63D to 80D				
Original Color	White, Transparent				
Application	Hor	ne appliances, Pack		ners	
	nome appliances, r ackaging, r ood containers				

4.1 GP100 Series

Composition	SBS, Mineral oil					
Hardness	5A to 70D					
Color	Transparent					
Features High tension, High torque, High elasticity, Easy coloring and paintable, F						
Applications Toy dolls, Pet toys, Transparent toys, Sports equipment						
Processing	Injection molding, Blow molding					
Overmold Substrate	PS, PC, ABS					

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTMD412	ASTM D792	ASTM D1238
	Shore	Мра	%	g/cm ³	g/l0min
GP100-0501	5A	2	1200	0.9	100(200℃ /0.325kg)
GP100-1001	10A	2.7	970	0.89	30(200℃ /2.16kg)
GP100-2001	20A	3.0	900	0.89	20(200°C /2.16kg)
GP100-3001	30A	3.5	900	0.92	25(200°C /2.16kg)
GP100-4001	40A	4.0	800	0.92	60(200℃/2.16kg)
GP100-5001	50A	4.5	800	0.92	50(200°C /2.16kg)
GP100-6001	60A	5.0	700	0.92	55(200°C /2.16kg)
GP100-7001	70A	7.0	700	0.94	20(200°C /2.16kg)
GP100-8001	80A	10.0	700	0.94	7(200℃ /2.16kg)
GP100-9001	90A	11.0	700	0.95	8(200℃ /2.16kg)
GP100-5001D	50D	12.0	700	0.98	10(200℃ /2.16kg)
GP100-6001D	60D	13.0	600	0.98	3(200°C /2.16kg)
GP100-7001D	70D	14.0	500	0.98	3(200℃ /2.16kg)

4.2 GP200 Series

Composition	SEBS, SEEPS, Mineral oil				
Hardness	700 to 50A				
Color	Transparency				
Features	Super soft, Dry and comfortable, High transparency, Fully recyclable				
Applications Furry ball, Water balloon, Doll, Digital pet skin, Artificial skin, Mask, Adult p					
Processing Injection molding, Casting					
Overmold Substrate	PP, PC				

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTMD412	ASTM D792	ASTM D1238
	Shore 00 / A	Мра	%	g/cm ³	g/l0min
GP200-0701Q	7 00	2.5	1200	0.84	27(150℃ /1kg)
GP200-1501Q	15 00	2.7	1100	0.84	14(150℃ /1kg)
GP200-2501Q	25 00	2.7	1100	0.84	3(150℃ /1kg)
GP200-4001Q	40 00	3.0	1000	0.84	2(150°C /1kg)
GP200-0501	5A	3.0	900	0.85	6(150℃ /1kg)
GP200-1001	10A	3.4	700	0.86	4(150℃ /1kg)
GP200-2001	20A	3.5	650	0.87	3(150℃ /1kg)
GP200-3001	30A	3.6	650	0.87	4(150℃ /1kg)





Braces

Doll skin

Toy ball

4.3 GP210 Series

Composition	SEBS, SEPS, Mineral oil, PP					
Hardness	20A to 60D					
Color	Translucent					
Features	High wear resistance, Good temperature resistance, Good weather resistance, Good feel, Good colorability, Food contact level, Safe and environmentally friendly					
Applications	Baby toys, Commodity, Food seal					
Processing	Injection molding, Blow molding, Extrusion					
Overmold Substrate	PP, PE, PP+GF					

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTM D412	ASTM D792	ASTM D1238
	Shore	Мра	%	g/cm ³	g/I0min
GP210-2004	20A	4.0	750	0.88	3(200℃ /2.16kg)
GP210-3004	30A	4.5	750	0.88	4(200℃ /2.16kg)
GP210-4004	40A	5.0	750	0.88	25(200°C /2.16kg)
GP210-5004	50A	5.0	750	0.88	35(200°C /2.16kg)
GP210-6004	60A	6.0	750	0.88	29(200°C /2.16kg)
GP210-7004	70A	7.5	700	0.88	24(200°C /2.16kg)
GP210-8004	80A	10.0	700	0.89	16(200℃/2.16kg)





Toy tank

Water hose

4.4 GP310 Series

Composition	SEBS, TPU or TPU plus modified TPE				
Hardness	40A to 90A				
Color	White				
Features	High peel strength, High tear strength, Good scratch resistance, Good colorability, Fully recyclable, Requires pre-drying.				
Applications	Commodity, Power tool handle, Automotive trim				
Processing	Injection molding, Extrusion				
Overmold Substrate ABS, PC, AS, PMMA, PETG, SAN					

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTM D412	ASTM D792	ASTM D1238
	Shore	Мра	%	g/cm ³	g/I0min
GP310-553A	55A	4.5	650	1.05	17(200°C /5kg)
GP310-6003	65A	5.5	500	1.05	12(200°C /2.16kg)
GP310-7003	70A	5.9	400	1.05	10(200°C /2.16kg)
GP310-8003	80A	6.5	400	1.06	8(200℃ /2.16kg)
GP310-7501	75A	24	680	1.20	13(200°C /1kg)
GP310-8501	85A	36	660	1.21	10(200°C /2.16kg)





Electric drill handle

Mobile phone case

Tape case

4.5 GP320 Series

Composition	SEBS, Mineral oil					
Hardness	40A to 90A					
Color	White					
Features	Matte, Anti-skid, Good colorability, Easy to process, Fully recyclable, Requires pre-drying.					
Applications	Tool handles					
Processing	Injection molding					
Overmold Substrate PA, PA+GF						

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTM D412	ASTM D792	ASTM D1238
	Shore	Мра	%	g/cm ³	g/I0min
GP320-4501	45A	2.5	450	1.08	15(200℃ /2.16kg)
GP320-5501	55A	2.8	450	1.08	18(200℃/2.16kg)
GP320-6501	65A	2.8	600	1.08	25(200°C /2.16kg)
GP320-7001	70A	3	550	1.10	40(200℃/2.16kg)
GP320-7501	75A	3.5	400	1.10	25(200°C /2.16kg)





Hammer handle

Screwdriver handle

4.6 GP410 Series

Composition	SBS, Mineral oil			
Hardness	10A to 95A			
Color	White			
Features	High tension, High torque, High elasticity, Easy coloring and paintable, Fully recyclable			
Applications	Toy dolls			
Processing	Injection molding			
Overmold Substrate	PS, K resin			

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTM D412	ASTM D792	ASTM D1238
	Shore	Мра	%	g/cm ³	g/I0min
GP410-8202	82A	11.4	500	0.97	10(200°C /5kg)
GP410-8702	87A	11.6	500	0.97	12(200°C /5kg)
GP410-9202	92A	12.1	450	0.98	13(200°C /5kg)
GP410-9702	97A	12.5	300	0.98	9(200℃ /5kg)
GP410-35	35A	3.5	700	0.94	25(200℃ /2.16kg)
GP410-45	45A	4.0	650	0.95	20(200℃ /2.16kg)
GP410-55	55A	4.5	600	0.95	18(200℃ /2.16kg)
GP410-65	65A	5.0	550	0.95	15(200℃ /2.16kg)





Doll figure

Doll fox

Doll rabbit

4.7 GP420 Series

Composition	SBS, Mineral oil, PS, Filler				
Hardness	10A to 95A				
Color	White				
Features	Resistant to high tension, Resistant to high torque, High elasticity, Easy coloring and paintable, Fully recyclable				
Applications	Toys, Shoe material				
Processing	Injection-molding, Blow molding				
Overmold Substrate					

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTM D412	ASTM D792	ASTM D1238
	Shore	Мра	%	g/cm ³	g/l0min
GP420-4003	40A	3.5	450	1.08	20(200° C/2.16kg)
GP420-5003	50A	4.0	450	1.08	15(200° C/2.16kg)
GP420-6003	60A	4.3	400	1.08	10(200°C /2.16kg)
GP420-7003	70A	4.8	400	1.09	8(200°C /2.16kg)
GP420-8003	80A	5.5	350	1.09	5(200℃ /2.16kg)
GP420-9003	90A	6.3	300	1.10	3(200℃ /2.16kg)





Shoe sole

Toy excavator

4.8 GP510 Series

Composition	SBS, Mineral oil, PP, Filler (plus SEBS or PE)			
Hardness	10A to 95A			
Color	White			
Features	Resistant to high tension, High elasticity, Easy to process, Fully recyclable			
Applications	Toy tire leather, Handle, Sheet gasket			
Processing	Injection molding			
Overmold Substrate	PP, PE			

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTM D412	ASTM D792	ASTM D1238
	Shore	Мра	%	g/cm ³	g/I0min
GP510-5003	50A	4.0	600	1.06	50(200℃ /2.16kg)
GP510-6003	60A	4.5	550	1.06	45(200℃ /2.16kg)
GP510-7003	70A	5.2	550	1.06	42(200℃ /2.16kg)
GP510-8003	80A	6.3	500	1.06	38(200℃ /2.16kg)
GP510-8503	85A	6.8	500	1.06	35(200℃ /2.16kg)
GP510-5009	50A	2.5	450	1.15	60(200℃ /2.16kg)
GP510-6009	60A	2.8	450	1.15	55(200℃ /2.16kg)
GP510-7009	70A	3.2	400	1.15	50(200℃ /2.16kg)



Toy tire

Sheet gasket

Handle

1

4.9 GP520 Series

Composition	SEBS, Mineral oil, PP, Filler(and PE)			
Hardness	10A to 90A			
Color	White			
Features	Resistant to high tension, High elasticity, Easy to process, Fully recyclable			
Applications	Toothbrush, Castor wheel, Ice trays, Toy tires, Car mat, Electric button			
Processing	Injection molding			
Overmold Substrate	PP, PE			

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTM D412	ASTM D792	ASTM D1238
	Shore	Мра	%	g/cm ³	g/l0min
GP520-5003	50A	4.8	800	1.05	16(200°C /2.16kg)
GP520-6003	60A	5.0	700	1.05	21(200°C /2.16kg)
GP520-7003	70A	5.7	700	1.05	25(200℃ /2.16kg)
GP520-8003	80A	6.9	600	1.05	28(200°C /2.16kg)
GP520-8503	85A	7.5	600	1.05	20(200°C /2.16kg)
GP520-4005	40A	2.5	550	1.19	12(200°C /2.16kg)
GP520-5005	50A	3.0	550	1.19	20(200°C /2.16kg)
GP520-6005	60A	3.4	550	1.19	28(200°C /2.16kg)
GP520-7005	70A	4.2	550	1.19	30(200℃ /2.16kg)
GP520-8005	80A	4.8	500	1.19	18(200°C /2.16kg)
GP520-9005	90A	6.0	480	1.20	6(200°C /2.16kg)





Toothbrush

4.10 GP540 Series

Composition	SEBS, SEEPS, Mineral oil, or plus FR			
Hardness	55A to 95A			
Color	White, Off-White			
Features	Soft feel and comfortable, High elasticity, UV resistant, Precipitation resistant, Halogen-fre			
Applications	Cable jacketing			
Processing	Extrusion			
Overmold Substrate	PP, PE			

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTM D412	ASTM D792	ASTMD1238
	Shore	Мра	%	g/cm ³	g/I0min
GP540-7505	75A	10	600	1.10	15(200℃ /10kg)
GP540-8005	80A	12	550	1.10	20(200°C /10kg)
GP540-8506	85A	13	650	0.98	25(200°C /10kg)
GP540-9006	90A	14	600	0.98	30(200℃ /10kg)
GP540-7503(N)F	75A	4.5	400	1.09	35(230℃ /10kg)
GP540-8003(N)F	80A	4.8	325	1.09	30(230℃ /10kg)
GP540-8503(N)F	85A	5.5	260	1.09	28(230℃ /10kg)
GP540-9003(N)F	90A	6.0	250	1.09	25(230℃ /10kg)





USB cable jacketing

Power cord jacketing

Power connection cable jacketing

4.11 GP550 Series

Composition	SEBS, SEEPS, Mineral oil			
Hardness	45A to 95A			
Color	White			
Features	Smooth finish, Excellent elasticity, UV resistant, Good weldability, Fully recyclable			
Applications	Profiles			
Processing	Extrusion			
Overmold Substrate	PP, PE			

	Hardness	Tensile Strength	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTM D412	ASTM D792	ASTM D1238
	Shore	Мра	%	g/cm ³	g/I0min
GP550-5504	55A	4.5	600	1.10	10 (200°C /5kg)
GP550-6004	60A	5.1	600	1.10	8(200°C /5kg)
GP550-6504	65A	5.8	600	1.10	6(200℃ 5kg)
GP550-7004	70A	6.2	550	1.10	4(200°C /5kg)
GP550-7504 75A		7.0	550	1.10	3(200°C /5kg)





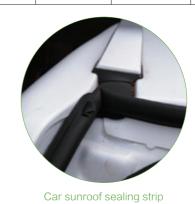
Profiles

4.12 GP610 Series

Composition	EPDM, Mineral oil, PP
Hardness	40A to 90A
Color	White
Features	Excellent aging resistance, High resilience, Excellent compression resistance, Halogen- free, Fully recyclable
Applications	Automotive seals, Door and window seals
Processing	Injection molding, Extrusion
Overmold Substrate	PP, PE

	Hardness	Tensile Strength	Compression Deformation (23° C/22h)	Compression Deformation (70° C/22h)	Elongation at Break	Density	Melt Index
Product Code	ASTM D2240	ASTM D412	ASTM D395	ASTM D395	ASTM D412	ASTM D792	ASTM D1238
	Shore	Мра	%	%	%	g/cm ³	g/I0min
GP610-4502	45A	4.0	23	34	400	0.96	20(200°C /5kg)
GP610-5502	55A	4.8	24	35	430	0.96	22(200°C /5kg)
GP610-6502	65A	6.0	28	36	450	0.96	25(200℃ /5kg)
GP610-7502	75A	6.8	31	39	500	0.96	28(200°C /5kg)
GP610-8502	85A	9.0	36	46	520	0.96	30(200℃ /5kg)





Car door sealing strip

Windscreen wiper

4.13 GP640 Series

Composition	SEBS, Mineral oil, FR
Hardness	60A to 95A
Color	White
Features	Dry touch, Excellent elasticity, Good UV stability, Halogen-free, Fully recyclable, Meet UL94-V0 requirements
Applications	Electronic appliances
Processing	Injection molding
Overmold Substrate	PP, ABS, PC

	Hardness	Tensile Strength	Elongation at Break			
Product Code	ASTM D2240	ASTM D412	ASTM D412	ASTM D792	ASTM D1238	
	Shore	Mpa %		g/cm ³	g/l0min	
GP640-6001	60A	4.5	450	1.10	5(200°C /5kg)	
GP640-6501	65A	5.8	450	1.10	7(200°C /5kg)	
GP640-7501	75A	6.7	400	1.10	8(200°C /5kg)	
GP640-8501	85A	7.2	400	1.10	10(200°C /5kg)	
GP640-9001	90A	8.2	350	1.10	12(200°C /5kg)	
GP640-9501	GP640-9501 95A		350	1.10	14(200℃ /5kg)	





Connector Jacketing

Connector Jacketing

4.14 GP920 Series

Composition	PP, POE or wood plastic powder or filler
Color	White, transparent
Features	High transparency, High temperature resistance, High gloss, High rigidity, High modulus, Warp-resistant, Low shrinkage
Applications	Home appliances, Packaging, Food containers
Processing	Injection molding

	Hardness	Density	Melt Index (230℃ 2.16KG)	Heat deflection temperature (0.455MPa)	lzod impact strength (notched 23℃)	Flexural strength	Flexural modulus
Product Code	ASTM D2240	ASTM D792	ASTM D1238	ASTM D648	ASTM D256	ASTM D790	ASTM D790
	Shore D	g/cm3	g/10min	°C	KJ/m ²	Мра	Мра
GP920-4600	66	0.90	15	66	18	18	683
GP920-4500	72	0.90	13	84	4	43	1300
GP920-2504	63	1.00	12	96	43	25	1300
GP920-2506	68	1.10	22	124	6	42	2600
GP920-0035	74	1.10	18	135	45	45	4500
GP920-70D01FR	68	1.40	10	102	47	27	1400
GP920-70DWPC	80	1.35	10	126	2	49	3100





Bowls and spoons

Bowl cover

Cup