

Thermoplastic Elastomers Presented By

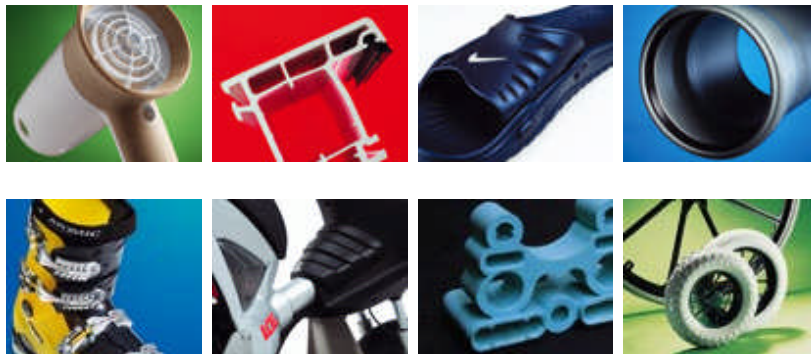
performanceplastics

From



API, the European leader in the processing
of polymeric and thermoplastic elastomers

In the plastic
materials field
**API is the only
company able to offer
such a wide range
of flexible, light,
soft and super-soft coloured products**
which combine
chemical-physical
mechanical properties
with excellent looks.



Performance Plastics Ltd
Tel. 01590 622666
www.performance-plastics.co.uk

Application	Notes	Grades
Footwear	Soles, mid-soles, heels and other components and accessories.	Apizero, Apigo, Apifive, Apilon 52, Raplan, Apiflex, Apilon 33, Apilon 64
Sports footwear and equipment	Shoes and accessories for skiing, mountaineering, hockey, skating, basketball, football, tennis, golf, running, trekking, cycling, moto-cross, motor-cycling; sailing and windsurfing accessories, sub aqua (flippers, masks), sport helmets and protective gear.	Apizero, Apigo, Apifive, Apilon 52, Raplan, Apiflex, Apilon 33, Apilon 64, Megol, Tivilon
Accessories for clothing and safety	Soft inserts, components for coat hangers, labelling, various fashion components, components for sporting and safety clothing, components for gas masks, soles and uppers for safety work shoes and boots.	Megol, Apizero, Apifive, Apigo, Apilon 52, Apiflex
Building	Door and window frame gaskets and seals, accessories and joints for electrical, plumbing and building, expansion joints, sealing waterproof components.	Apigo, Apilon 52, Apiflex, Apilon 33, Apilon 64, Tivilon
Household appliances	Piping, belts, ring gaskets, dishwasher and washing machine gaskets, refrigerator door gaskets, handles, feet and small appliance casings.	Apigo, Apilon 52, Apiflex, Apilon 33, Apilon 64, Tivilon, Megol, Apifive
Furniture	Furniture profiles, bath and swimming pool equipment, chair and armchair trimmings, home/ office accessories, components for furniture: light fittings, telephones, TV casing, remote control and other electronic accessory casing, keyboards, etc.	Apigo, Apilon 52, Apiflex, Apilon 33, Tivilon, Megol, Apifive, Raplan, Apizero
Household articles	Knife handles, cutlery, scissors, sundry tools, non-slip carpets, gaskets, materials for deck-chairs and stationery articles.	Apigo, Apiflex, Apilon 33, Tivilon, Megol
Medical (food contact FDA, hospital uses)	Food packaging containers and seals, tubes for drink and food transportation, caps and medical seals, syringe pistons and prosthesis accessories, non-decubitus pillows, clogs and safety shoes, gamma-ray sterilizable components, handles for medical instruments and equipment, baby care accessories, non-toxic toys.	Apilon 52, Apiflex, Megol, Raplan
Agriculture	Components and accessories for agricultural and breeding equipment.	Apigo, Apilon 52, Apiflex, Apilon 33, Megol, Raplan
Electronic and telecommunications	Cables and optical fibres sheathing, plugs, switch-covers, push button components, bobbins and cable spools, soft over-moulded covers for rigid shock resistant casings.	Apigo, Apilon 52, Apiflex, Apilon 33, Apilon 64, Tivilon, Megol
Transport (car, motorcycle, public transport)	PVC-free materials for trimmings and seals, air conductors, bellows, handles, under-hood components, seat covers and interior trimmings, bellows for shock absorbers, saddles, air-bag covers.	Apigo, Apilon 52, Apiflex, Apilon 33, Apilon 64, Megol, Tivilon
Toys	Gadgets, non-toxic and soft components for toy constructions.	Apigo, Tivilon, Apizero, Megol, Apifive, Raplan
Mechanics and tools	Fasteners, gear components, transmission belts, pipe fittings, non-slip handles for instruments and tools.	Megol, Apigo, Apilon 52, Apilon 33, Apilon 64, Tivilon
Eyewear	Components for corrective glasses, sunglasses, safety glasses, sports glasses, cycling eyewear, ski masks, sub aqua masks and protective breathing apparatus.	Megol, Apilon 52

The Products

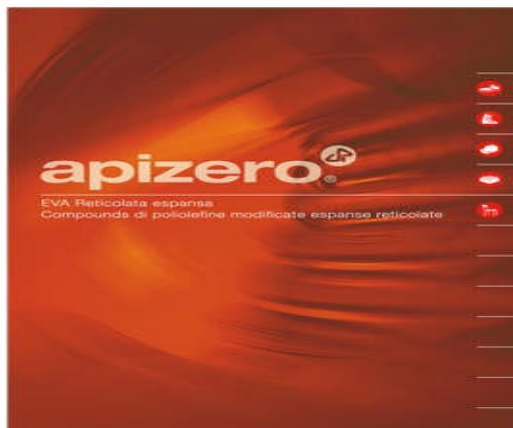


Compounds based on SEBS (styrene-ethylene-butylene-styrene).

Hardness ShA 20 - ShD 65. excellent elasticity at low and high temperatures, UV and aging stability, broad processing range, excellent aesthetic. Available grades for co-extrusion and over-moulding with engineering plastics (PP, PE, ABS, SAN, PPMA, PC, PET, PA6, PA66, TPU, etc.) and with good compression set, FDA and EN 90/128 EEC grades approved are available.

Processing technologies:

injection moulding and over-moulding, extrusion and blow moulding.

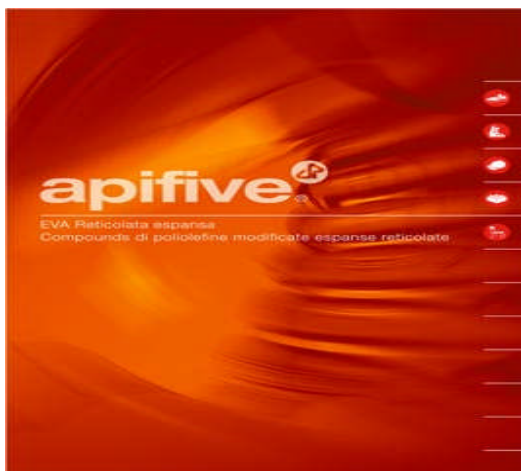


Compounds based on EVA (ethyl-vinyl acetate), expandable and cross linkable

with particular characteristics of lightness, good mechanical properties and aesthetics, high and low temperature resistance, good abrasion resistance possibility to colour with specific master batches.

Processing technologies:

modified injection moulding process

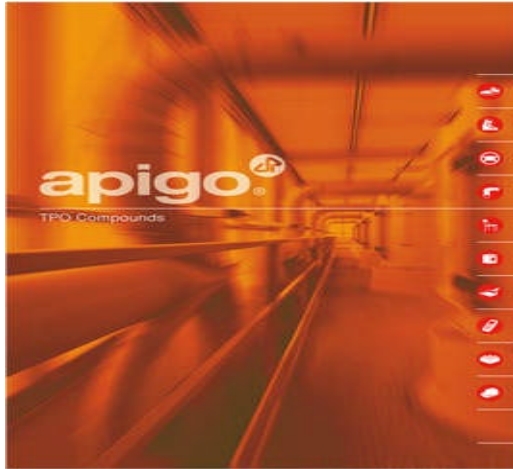


Compounds based on EVA (ethyl-vinyl acetate), expandable and crosslink able

modified with thermoplastic elastomers and rubbers to improve softness, soft touch and matt finish (imitation of vulcanized rubber) with excellent aesthetics. Possibility to colour with specific master batches.

Processing technologies:

modified injection moulding process.



Compounds based on TPO (thermoplastic polyolefin's)

modified with elastomers.
Hardness ShA 50- ShD 65. Lightness, low temperature resistance, resilience and stiffness.
Innovative alternative to traditional materials where recycling and low environmental impact are requested.

Processing technologies:

injection moulding and over-moulding, extrusion



TPU (thermoplastic polyurethanes) and compounds based on TPU.

Hardness ShA 60 - ShD 75, wide range of formulations including both polyester and polyether grades.
Excellent mechanical properties, chemical, low temperature and abrasion resistance, improved processability.

Processing technologies:

injection and intrusion moulding, extrusion.



Compounds based on SBS (styrene-butadiene-styrene).

Hardness ShA 30 - ShD 45, excellent elastic properties, wide melt flow range, compact and expanded grades, abrasion resistance, matt and shiny surface, transparency and low temperature resistance, broad processing range.
FDA and EN 90/128 EEC grades approved are available.

Processing technologies:

injection and intrusion moulding, extrusion.



Compounds based on plasticized PVC.

Hardness ShA 45-95, compact and expanded grades, heavy metal free, wide melt flow range, good chemical and abrasion resistance, FDA and EN 90/128 EEC grades approved are available.

Processing technologies: injection moulding and extrusion.



Compounds based on plasticized PVC modified with nitrilic rubber.

Hardness ShA 50-80, both compact and expanded grades, heavy metal free, wide melt flow range, good chemical and low temperature resistance, antistatic properties. FDA and EN 90/128 EEC grades approved are available.

Processing technologies: injection moulding and extrusion



Compounds based on plasticized PVC modified with thermoplastic polyurethanes.

Hardness ShA 60-80, compact and expanded grades, wide melt flow range, good chemical, abrasion and low temperature resistance, matt and shiny surface, imitation of vulcanized rubber.

Processing technologies: injection and intrusion moulding, extrusion.



**Innovative compounds
based on TPV
(thermoplastic vulcanizates).**

Hardness ShA 30 - ShD 45
high elasticity at low
and high temperatures,
excellent compression set,
UV resistance, high melt flow and good
abrasion resistance.
Excellent processability.

Processing technologies:
injection moulding,
extrusion and blow moulding.

Assistance in grade selection, datasheets and technical support is
available from

performanceplastics

Performance Plastics Ltd Unit 3, Brock House, Grigg Lane, Brockenhurst, SO42 7RE Tel. 01590 622 666 Fax 01590 622 629 Website www.performance-plastics.co.uk E-mail info@performance-plastics.co.uk

Performance Plastics Ltd
Tel. 01590 622666
www.performance-plastics.co.uk