

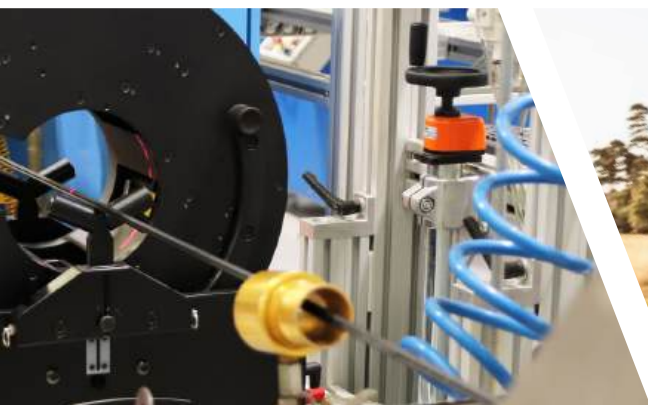


COBA
plastics group



Design | Develop | Deliver

Technical Extrusions & Mouldings



www.cobaplastics.com

ABOUT COBA PLASTICS GROUP

Founded in 1966, the automotive industry has steered COBA Plastics Group for over 60 years. It now employs over 650 people operating out of six countries, enjoying global recognition.

Through partnership with the world's largest automotive manufacturers we continue to be involved with some of the most successful vehicles ever, with COBA parts becoming standard for many leading brands.

SEATING & INTERIOR

COBA Plastics Group also sets the pace when it comes to seating and interior plastic extrusion and mouldings. We offer one of the largest ranges of automotive trim retainers using the latest precision technologies.

These include the innovative COBAflex® family of retainers (profiles with non-woven fleece) used to firmly attach the seat cover to the underside of the car seat.

Visit www.cobaplastics.com for more information on our seating and interior offering.



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Tier 1

Tier 1 & OEM supplier to the top automotive manufacturers.

4,000,000

Thermoplastic components produced every day.

650+

People across 8 locations

75

Active extrusion lines across Europe & Africa.

DRIVEN BY INNOVATION

We design and manufacture innovative technical components that support both weight reduction and cost reduction initiatives, and use multiple materials for functionality and performance benefits.

From our state of the art Engineering Centre in the UK we develop innovative products that are refined and tested through cutting edge prototyping and FEA processes. This ensures we deliver exceptional solutions that are always on track to exceed our customers' expectations.

COBA PLASTICS GROUP LOCATIONS

- Fleckney
Extrusion, Injection Moulding,
Precision Engineering
Leicestershire, UK
- Thurmaston
Hose & Tube Extrusion
Leicestershire, UK
- Ansbach
Office
Germany
- Ploiesti
Extrusion, Injection Moulding
Romania
- Terchova
Extrusion, Injection Moulding
Slovakia
- Cape Town
Extrusion, Injection Moulding
South Africa
- Tangier
Distribution Hub
Morocco



Agile in Design, with a Reputation for Performance and Quality.

COBA Plastics Group is a market leader in Glazing and Exterior Sealing solutions. We also produce a large range of technical extrusions and mouldings for external and internal use. We work alongside our clients to produce bespoke thermoplastic components of the highest quality.

Our agile engineering capabilities and technology, including FEA, allows us to partner our customers in driving projects forward, ensuring a cost-effective and efficient approach.



Glazing Seals

Straight, Overmoulded & Wraparound Gaskets for Fixed & Sliding systems.
Page 6



Roof Rail & Ditch

Individual components & full integrated roof sealing.
Page 7



Visibility Systems

Components for Wiper Systems & Headlamp cleaning systems.
Page 11



Weather Seals

Dynamic Sealing against Water, Dust & NVH.
Page 8



Under Bonnet

Grille, Plenum, Dust Seals & Air Management.
Page 10



Interior Components

IP, Door Panel, Multi-functional Brackets, Accessories & Load Floors.
Page 12



Exterior Trim

Flexible trim for Pillar, Spoiler & Cladding.
Page 9



ROOF RAIL & DITCH

Using extrusion and moulding techniques, COBA manufactures a range of gaskets which form part of the roof rail / roof ditch assembly. We can supply gaskets with overmoulded end features to produce one finished component, effectively reducing BOM and speeding up assembly times. Gaskets can also be supplied with punched or laser cut assembly features.

Our gaskets are designed to offer effective sealing functionality, while also creating visually appealing sleek lines to the roof rail / roof ditch area.

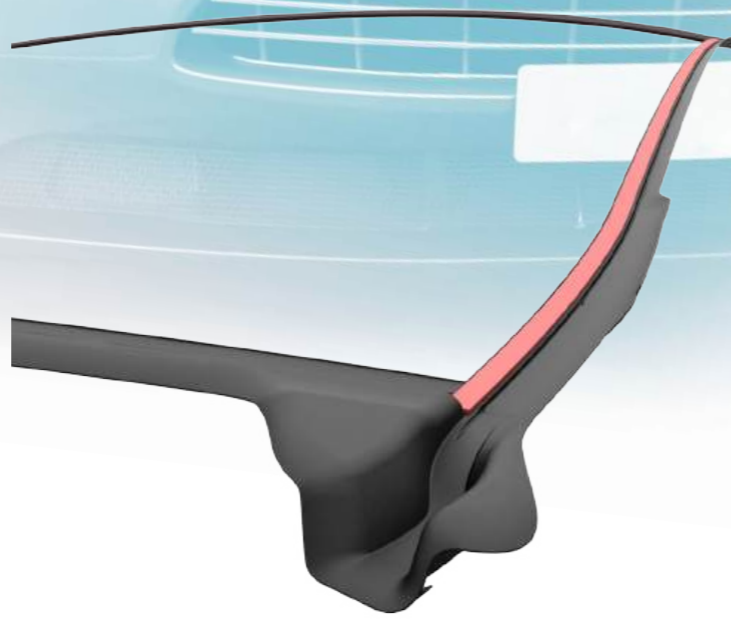


GLAZING SEALS

COBA Plastics Group is well geared to offer a range of technical solutions solutions that combine sealing performance and functionality, with stylish finish to enhance visual appearance.

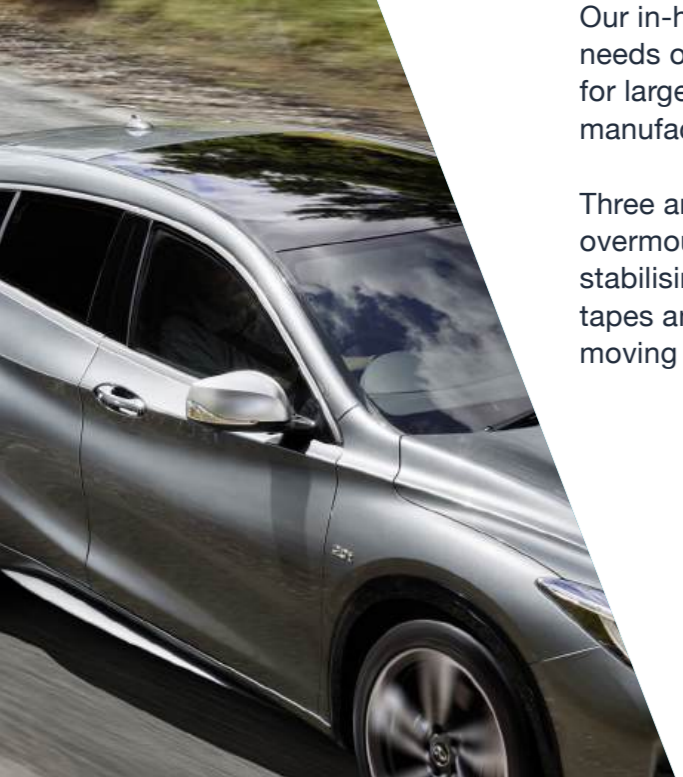
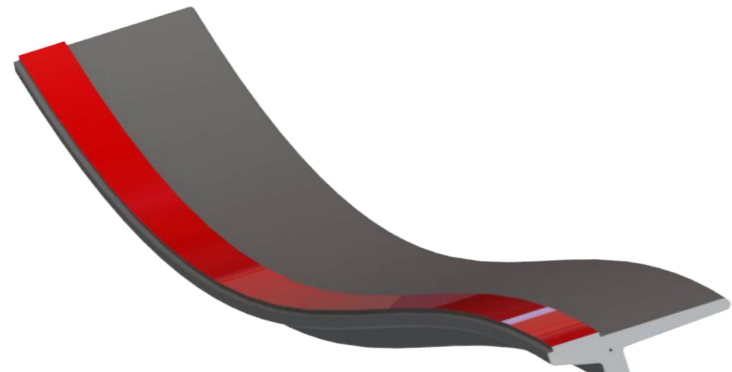
Common applications are:

- Windscreen
- Glass Run Channel
- Backlight
- Glass Roof / Skylight



Our in-house overmoulding capability allows us to meet the needs of increasingly complex shapes. The continuing trend for larger sized full glass roofs has driven the need for efficient manufacturing processes and cost-effective components.

Three and four-sided seals can be formed using welding or overmoulding processes. The gaskets can be manufactured with stabilising cords and adhesive tapes applied. A range of flock tapes and coatings is available for dynamic applications, such as moving glass or tailgate areas.



WEATHER SEALS

Our fully-recyclable range of dynamically performing weather seals with either flock tape or slip coating can be used for both internal and external vehicle applications.

These seals can be made with up to three materials to suit our customers' applications and can be offered with overmoulding features.



DESIGNED FOR COMFORT

Our seals are designed with passenger comfort in mind to reduce noise, while also sealing against water ingress and dust.



EXTERIOR TRIM

Our Exterior Trim parts offer stylish solutions that are both decorative and functional.

Through our extensive overmoulding capabilities we offer bespoke fixation elements to create an elegant and flawless finish.



BESPOKE TRIM

We produce a variety of gaskets that fit seamlessly to exterior bright trim.

We've designed a variety of bespoke components including Outer Belt and Cantrail Finishers. These can be straight cut or overmoulded with a range of slip coats and flocks.



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UNDER BONNET SEALS

COBA manufactures a range of under bonnet seals designed to fit to the front grille moulding, plenum moulding and engine cooling systems.

We go further by using FEA to prove out the product's design, functionality, deflection force requirements and compression set. Multiple materials can be used along with non-stick coatings.



VISIBILITY SYSTEMS

We manufacture a versatile range of components for use in Wiper Systems and Headlamp cleaning systems, providing a clear view in all situations.



AIR MANAGEMENT SEALS

Our range of seals are used to manage air flow in the engine compartment area. Such areas include Dust Seals, Engine Cooling System Baffles or Active Grille Shutter Extrusions.

Understanding that it is all about performance, our materials are chosen to effectively work in the engine environment area with excellent resistance to heat, oil and other engine fluids.



WIPER COMPONENTS

Our co-extruded Wiper Blade Spoilers are an essential part of modern wiper systems and used on both the front and rear screen wipers.

We specialise in the production of aerodynamic, lightweight, extruded profiles that clip directly onto the Wiper Arm. Our offering ranges from simplistic profiles right through to complex water carrying profiles with laser cut features.

TUBE & HOSE

Our TPV, PVC and polyamide based hoses and tubes are used in a multitude of automotive applications including washer bottle dip tubes, reinforced braided headlamp cleaning hoses and traditional hoses transferring water from the washer bottle & pump to the washer jets.

Our products have the added benefit of being fully recyclable and our TPV tube and hose offer a **weight saving of up to 35%** when compared to EPDM rubber. Tighter hose wall tolerance is also achievable, saving space in tight engine compartments.



INTERIOR COMPONENTS

We've designed innovative interior products that are commonly used in arm rest, load floor and sunblind applications.

Through our versatile moulding and extrusion capabilities we create many bespoke components, such as armrest structures, gaskets, fixation pins, glass holders and brackets.

We can produce technically demanding parts from volumes as low as a few hundred, making COBA the ideal partner for specialist and limited edition automotive projects.



TECHNICAL MOULDINGS

Our impressive injection and overmoulding capabilities keep us ahead of the competition.

Our in-house R&D team support you in specifying materials, product design and FEA to achieve low-dimension tolerances and high tensile strength.

We're proud to offer 2K injection moulding, allowing you to combine two types of plastic, or different colours within the same mould, reducing cost and streamlining the process.



MOULDED FASTENERS

Our bespoke moulded Clips, Pins and Fasteners are popular for securing fixtures throughout automotive interiors and exteriors.

A range of adhesive tapes and coatings can be added to these products as required.





C A S E S T U D Y

11 Component TPV Sunroof Seal Pack for New Toyota Corolla.

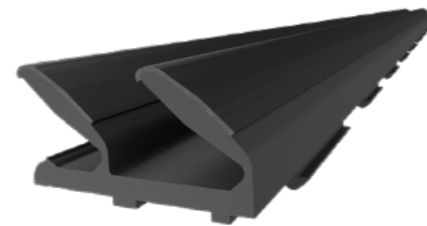
We are proud to have developed the **first exterior TPV seal pack** in Europe for use on a moving sunroof application. The innovative 11 component TPV seal packs are now in full production, and feature on the new **Toyota Corolla**.

These types of sunroof seals have historically been made from EPDM rubber. Working closely with our Tier 1 automotive customer, we ran multiple **FEA and CAD simulations** and conducted material trials to create a functional seal pack, that was in turn accepted by the OEM.



D R I V I N G P R O J E C T S F O R W A R D

Through decades of expertise we've developed award-winning processes that accelerate projects, and drive weight and cost savings. Agile, but global, we create bespoke solutions and systems that exceed our clients expectations.



D E S I G N & T O O L I N G

As well as product design we can develop and build all tooling and machinery required for our manufacturing processes.

As well as in-house design, engineering and manufacturing capability as well as resources for testing and analysis such as Co-ordinate Measuring and Tensile Strength Testing.

M A T E R I A L S

Our material options are vast. There is a choice of over 30 different polymer types and grades processed from co-polymer polypropylenes to PE, PVC, SEBS, TPE, TPV and ABS.

Over our 60 year history we've developed many top secret material mixes, designed to maximise durability, flexibility and resistance.

D O W N S T R E A M T E C H N O L O G I E S

Precision underpins everything we do at COBA Plastics Group. As such we have the ability to laser profiles as part of the in-line extrusion process, as well as having off-line profile laser systems.

We use high power CO₂ lasers with 2 and 3 axis galvo scanning heads, with power ranges from 100W - 600W. This technology gives us exceptional precision and fast cutting processes without the need for physical cutting tools.

Our 2nd Operations team are skilled in complex assembly, providing our customers with a fully finished part ready for the production line.

R E S U L T S

The TPV parts developed and supplied by COBA were over **20% lighter by material SG** compared to EPDM rubber. Further weight saving benefits were also created as a result of re-designing the seal cross sections, made possible by using TPV. This supports the drive towards **reducing vehicle CO₂ emissions**, weight reduction and electrification. TPV is also **fully recyclable**, supporting sustainability and environmental initiatives.

By using less material and removing weight by design, we were able to pass on cost savings to our customer.

Get in touch for support on your next project.



Contact us today
for information, advice
and support.



Get in touch

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