



Continuous Profiles

Sealing, Damping, Protecting

Profiles that Resist Any Challenge

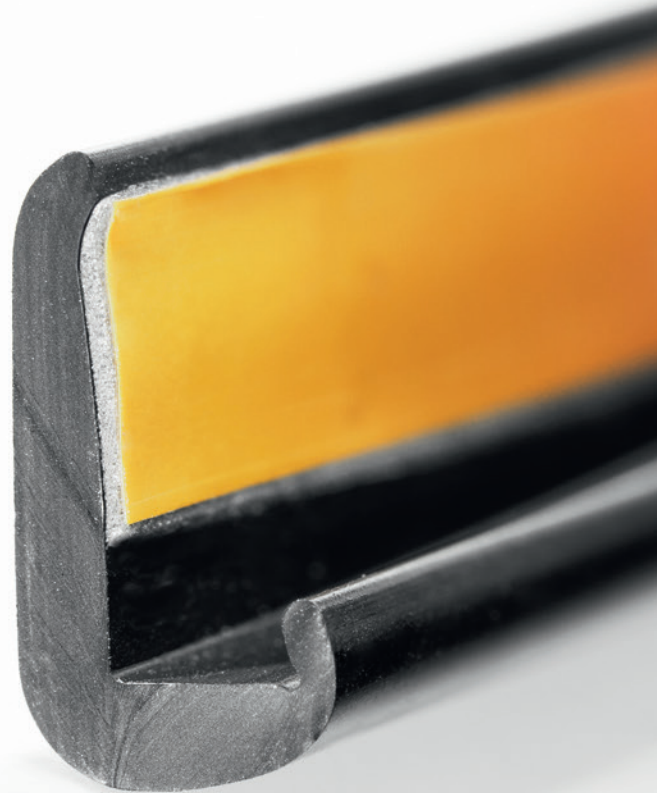
Reliable, Made-to-Last Quality

High-end profiles are the result of perfect interaction between engineering, manufacturing and materials know-how. As a market leader with many years of experience and a comprehensive product range, Parker Prädifa epitomizes these combined fortes.

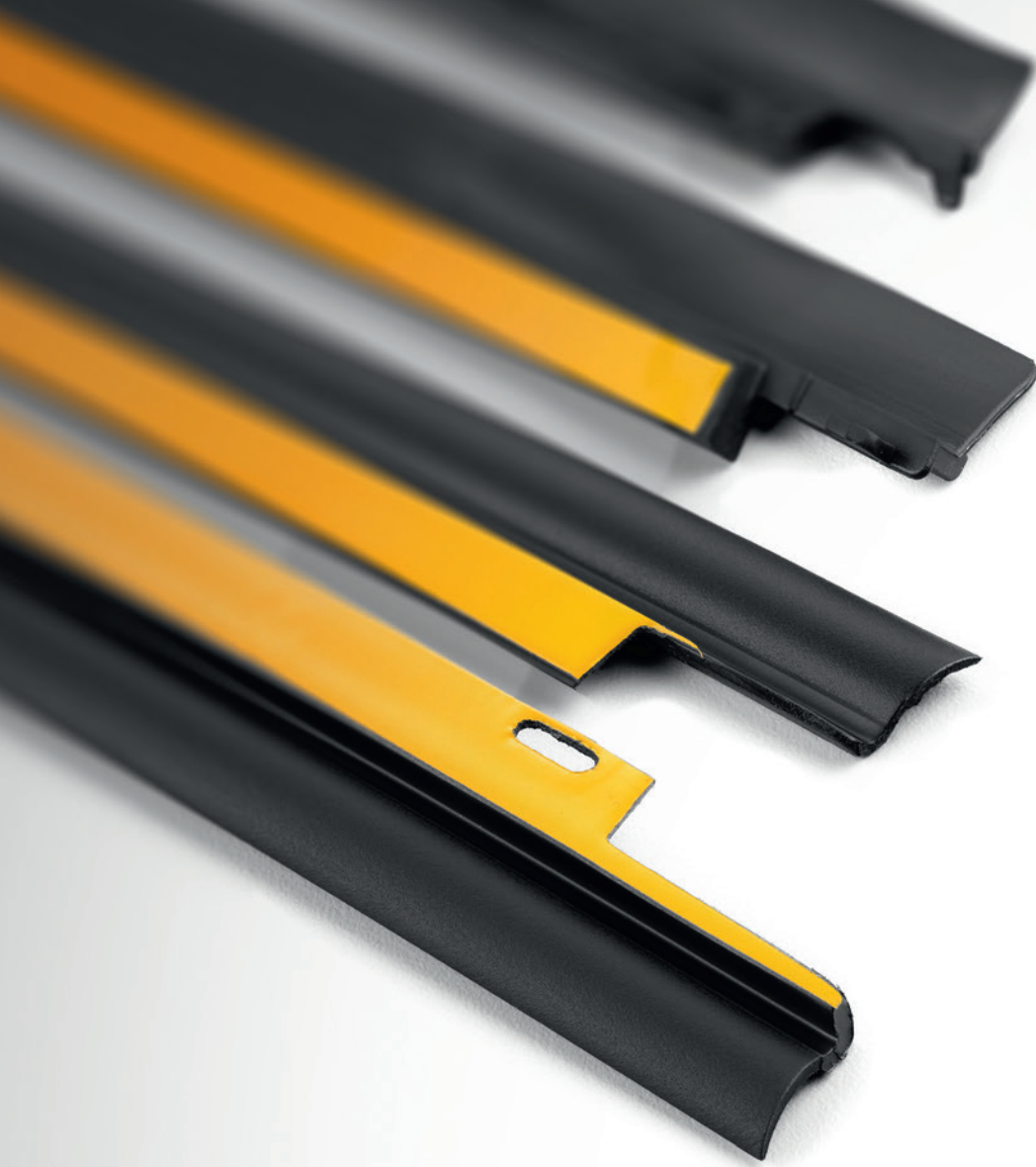
Whenever elastomer and plastic profiles are used Parker Prädifa knows how to achieve the optimum solution in terms of material and geometry. The possible uses of profiles are as varied as the product itself.

Diverse industries such as Automotive, Construction, Electrical Engineering, Mechanical Engineering, Sanitary Engineering and many others use engineered sealing products from Parker Prädifa for reliable sealing, damping, mounting or covering of technical components.

Parker Prädifa is a consulting and development partner assisting customers in selecting the products best suiting their needs, as well as in all engineering design questions.







Customized Profiles as Diverse as Your Tasks

Safe, Simple, Variable

In many applications, there are no technical alternatives to the utilization of profiles. They serve a wide range of purposes both in terms of functional performance and aesthetics.

Parker Prädifa offers a product portfolio that covers all uses, encompassing the appropriate material and/or material combination.



Sealing

For sensitive technical components such as those in electrical engineering or HVAC (heating, ventilation, air conditioning) systems, profiles are used for sealing against various media like water, dust or air. Protection and assurance of reliable performance are central aspects of these applications.

In automobiles, for example, sealing profiles prevent ingress of rain water or other environmental influences and thus ensure protection and comfort of the occupants.



Damping

NVH (noise, vibration, harshness) damping provides protection and comfort. In automobiles, for instance, profiles prevent undesirable external road or door-closing noise or other acoustical influences inside the cabin, as well as the occurrence of frequencies in vehicle interiors. In addition, profiles prevent product damage, thus helping to preserve value.



Protecting

Profiles used as edge protection help avoid injuries by sharp-edged components and corners. A protective profile can make an important functional contribution in shipping or assembly processes and possibly in subsequent operation as well.



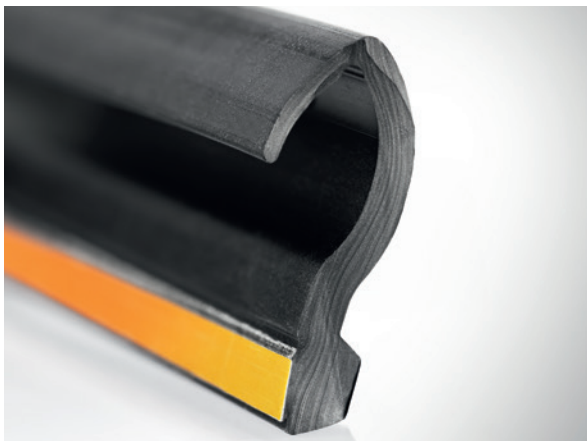
Assembly

When used as spacers or bump stops, profiles facilitate the assembly process of component systems, for instance when mounting windshields to bodies-in-white in automotive engineering. Besides facilitating assembly, profiles used as spacers enhance precision because their geometries and contours ensure compliance with the required spacing in the assembly process.

The Material Makes the Difference

Elasticity and Strength

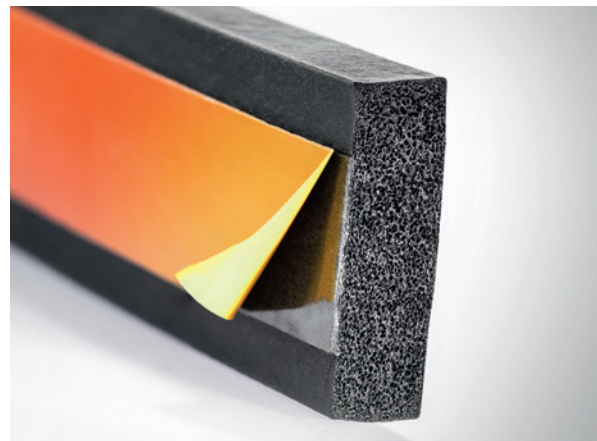
Parker Prädifa is a specialist in application engineering because, like anywhere, the end determines the means. The desired product properties can be achieved through optimum selection of the material. Compact elastomers, mixed-cell sponge rubber and combinations of both materials are used as well as diverse thermoplastics.



Compact Elastomers

Due to their elastic properties, profiles made from these materials are suitable for sealing applications involving high closure and load forces.

- High elasticity of compression, combined with good resilience
- Perfect sealing and damping material thanks to elastic properties
- Use with high closure and load forces
- Hardness: 35-90 Shore A



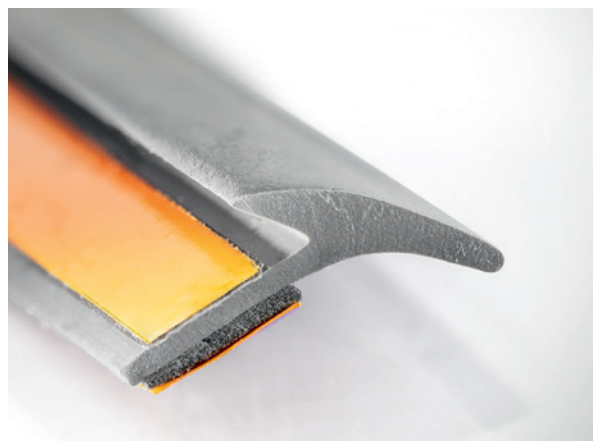
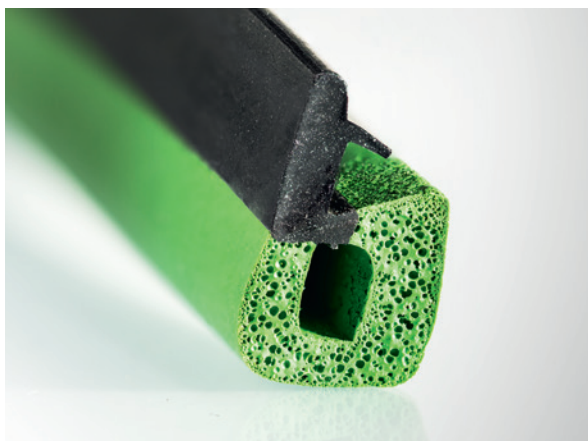
Sponge Rubber

Sponge rubber is used where high deformability and flexibility are required, for instance in tight assembly spaces. Due to the material's high elasticity of compression, adequate sealing action is ensured even under light pressure. Due to its open pore structure, the quantity of sponge rubber stock is measured as bulk density in kg/m^3 .

- No expansion of mass in the case of deformation thanks to largely open pore structure
- High elasticity of compression
- Sealing effect even when light pressure is applied
- High deformability and flexibility
- Bulk density: 65-350 kg/m^3

Elastomer Family	Compact Elastomer	Sponge Rubber	Combined Material	Thermoplastic
EPDM	x	x	x	
NBR	x	x	x	
SBR	x		x	
NR	x	x	x	
CR	x	x	x	
Silicone	x			
TPE/TPU/TPV				x

Standards in bold print



Combination of Compact Elastomer and Sponge Rubber

Composite solutions of an elastomer and sponge rubber consist of a compact elastomer carrier material and a soft sponge-rubber contour. The advantages result from the synergy of the individual materials and their properties.

- The carrier material serves to position and fix the part in place
- Even light pressure ensures reliable sealing

Thermoplastics

Thermoplastic materials, among other things, offer the advantage of containing no silicones (i.e. "paint-wetting impairment substances") and, due to their recyclability, are environmentally friendly. Profiles made from thermoplastics have a rubber-like outer skin.

- Recyclable
- Temperature range: -40 °C to +110 °C
- Producibile in all colors
- Hardness: 40-80 Shore A

Step by Step to the Tailored Product

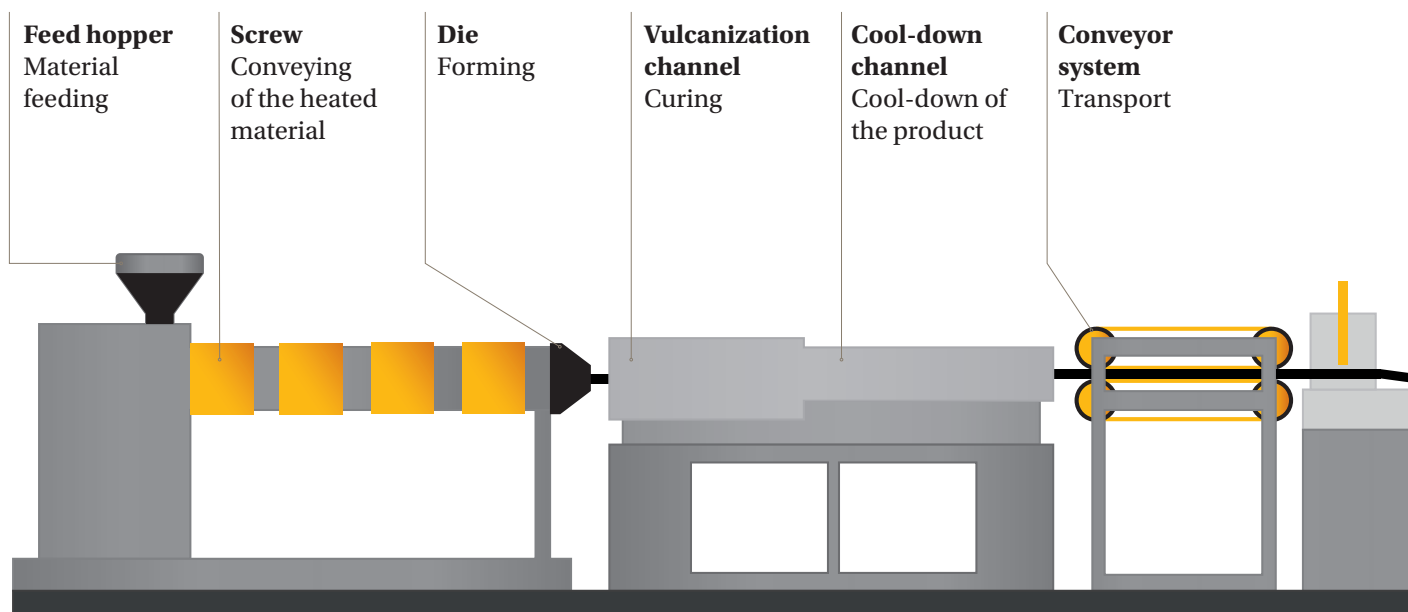
Extruding, Laminating, Finishing

Profiles from Parker Prädifa are produced from elastic materials that are precisely adapted to the respective product's purpose. They resist both dynamic and static loads and are characterized by flexible elongation properties combined with good resilience etc. The final product is either cut to length or delivered on rolls, depending on the customer's wish, which makes it ideally suited for automated processing.

Extrusion

Profiles from Parker Prädifa are produced as continuous seals using extrusion technology. The material is pushed through the machine

and given its elastic shape according to the final product's purpose.



Lamination (optional)

Here the product is combined with a self-adhesive coating. The double-sided adhesive system is applied to the profile using a laminator. The parameters: time, temperature and pressure applied result in the desired composite strength.

Heat-bonding ensures

- high-strength adhesion (even of small areas)
- temperature and chemical resistance
- permanent stability and aging resistance
- precise bonding

Kiss cut finishing (optional)

In the kiss cutting process, the profile is cut except for the liner. Due to the liner remaining intact, it can subsequently be wound on rolls including the profiles located on the adhesive tape.

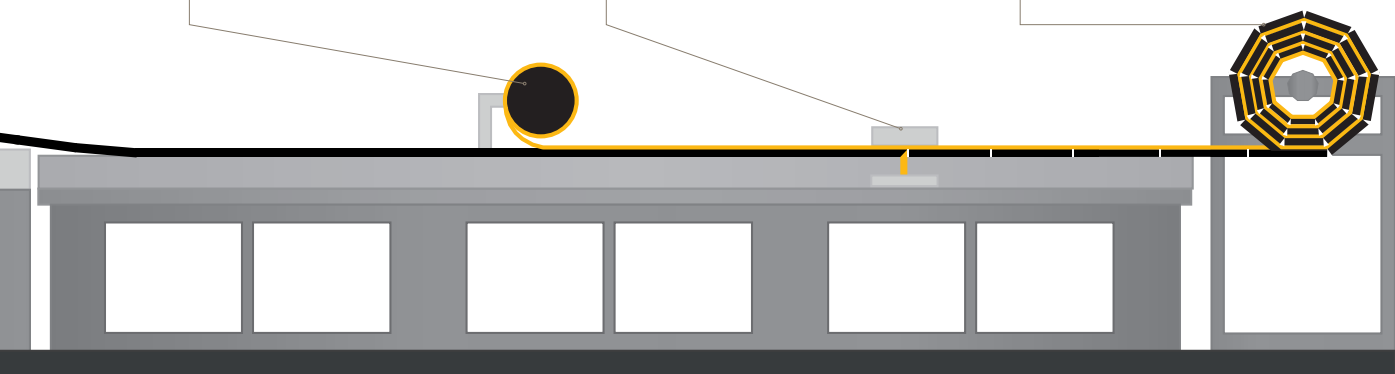


Profiles – cut or “off the roll”

The final product can either be cut to length or provided on rolls, depending on the customer’s requirements.

Customer benefits

- Simplified assembly process
- Easy manual removal
- Suitability for automated processing



At Home in Many Markets

Versatile, Universal, Trusted

Every market has specific demands. Parker Prädifa understands customer wishes and offers tailored solutions. Our services go far beyond the product itself. Talk to us about your specific requirements, including application technologies, finishing and logistics concepts.



Automotive



HVAC



Sanitary engineering



Construction industry



Mechanical engineering



Electrical engineering



Aerospace

**WARNING:**

These products can expose you to chemicals including carbon black (airborne and extracts), antimony trioxide, titanium dioxide, silica (crystalline), di(2-ethylhexyl)phthalate, ethylene thiourea, acrylonitrile, 1,3-butadiene, epichlorohydrin, toluenediisocyanate, tetrafluoroethylene, ethylbenzene, formaldehyde, furfuryl alcohol, glass fibers, methyl isobutyl ketone, nickel (metallic and compounds), lead and lead compounds which are known to the State of California to cause cancer; and 1,3-butadiene, epichlorohydrin, di(2-ethylhexyl)phthalate, di-isodecyl phthalate, ethylene thiourea, methyl isobutyl ketone, methanol, toluene, lead and lead compounds which are known to the State of California to cause birth defects and other reproductive harm. For more information go to www.P65Warnings.ca.gov.



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