



Z-PVC PROFILES

Materials

Using ten different sorts of plastic, we produce high-quality plastic profiles for over 50 years. Every profile and its final use require a specific type of plastic. We offer you the right materials and the knowledge to, together with you, find the solution to your plastic profile question. Are you interested to know more about the quality and advantages of the various plastic sorts? On this page, we explain the unique qualities, processing options, and technical information.

CF kunststofprofielen offers a wide range of PVC-profiles. PVC is one of the first and most versatile plastics that is still in high demand. The reason PVC is still popular stems from its ability to be modified for a specific use. PVC allows for straight and rugged applications like, for instance, in window sills. Yet, PVC also allows use for elastic products like, e.g., seals. The adaptability of PVC makes that new applications are presently still found.

Soft poly-vinyl-chloride (Z-PVC) profiles

Soft-PVC is produced when during the mixing process, plasticizers are added to the mix. These plasticizers differentiate in volatility as well as softening properties. Another option is to add extenders or secondary plasticizers to produce soft PVC. CF kunststofprofielen mainly utilizes high-grade plasticizers with low volatility and good cold-resistant capacities. In individual cases, like for use in oil and gasoline resistant profiles, polymer plasticizers are added. Soft PVC compounds can, however, also be produced without adding plasticizers.



Applications

Soft-PVC profiles are often found in:

- Boating industry
- Construction
- Medical environments
- Horticulture and irrigation
- Floor finishing products



Characteristics in short

- Maximum ambient temperature approximately 55° C (131° F)
- Good to excellent tensile strength
- self-extinguishing capacity
- good weather-resistant properties
- fair to good cold flexibility
- easy to co-extrude



Material qualities

The type of plasticizer and the amount added determines, in general, the quality of the Soft-PVC. It is impossible to designate Soft-PVC generically. We would like to inform you more in-depth regarding the various types of soft PVC. Depending on the amount of plasticizer, Soft-PVC products can be applied in environments with temperatures ranging from 50 - 70° C (122 - 158° F). When temperatures rise above this limit, the Soft-PVC may shrink permanently by approximately 2%.



Colors

Soft-PVC is colored through and through. By adding the appropriate stabilizers and right pigments, Soft-PVC becomes colorfast and weatherproof. Soft-PVC profiles can be used outdoors problem-free for many years.



Fire safety

Soft-PVC burns slowly and self-extinguishes. Depending on the used plasticizers and their amount, the level of self-extinguishing can be configured.



Transparent

Soft-PVC can also be found in a transparent variety.



Lacquer

Soft-PVC features good outdoor-resistance; like Hard-PVC, the material can be manufactured with an abundance of colors. Also, like Hard-PVC, the Soft variant will form a chalk layer after years of outdoor service. Soft-PVC can be painted over; however, the paint may cause the PVC to harden undesirably. Another issue, hair cracks may occur in the paint over time. Lacquer and paint may also react with certain plasticizers from the PVC compound, leading to poor adhesion of the paint.



Welding

Like Hard-PVC, Soft-PVC can be readily welded.



Chemical resistance

By adding plasticizers to Soft-PVC, the compound's chemical stability is determined by the applied plasticizer. In general, Soft-PVC features lower stability than Hard-PVC compounds.



Bonding with other materials

Like Hard-PVC, Soft-PVC easily bonds with other thermoplastics, like co-, tri-, and quad extrusions. Next to bonding the compound to naturally Soft-PVC, like the same material with, e.g., a different color, Soft PVC also binds well with Hard-PVC and thermoplastic rubber (TPR).



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