



Redesigning plastics. For good.

Building outdoor profiles
PVC compounds

ProVinyl

Reliability for harsh environment

PVC has been widely used for producing construction elements for decades, and it is acknowledged for its value in building closures such as doors, windows and shutters.

Window systems have significantly improved during the past decades. They allow more light inside homes and are more durable and better insulated. Lower energy consumption, larger apertures and cost improvement are also key parameters to meet the energy transition demands. PVC is a major component of window systems, and as such it is a major contributor to the performance enhancement. Whether rigid or plasticized, made for PVC or aluminum frames, ProVinyl by BENVIC is an asset for every window system application.

Shutter systems require similar performances. BENVIC provides fully adapted PVC for blades and mechanism housings, with increased resistance against mechanical shocks.

Cladding skin and core profiles



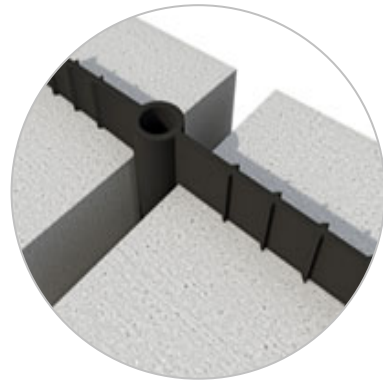
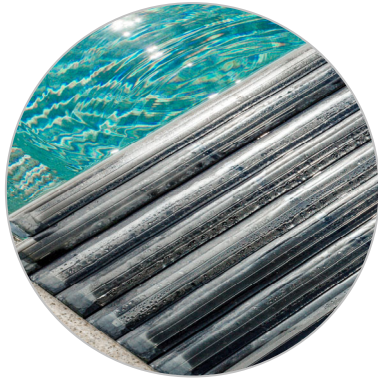
Batten and roof accessoires profiles

Decking blade profiles for durability and mechanical load resistance

Fences profiles and occultation profiles, light resistant, maintenance and corrosion free



Swimming pool shutter blades to match various aspects



Waterstop seals to protect construction elements from water or submersion

Durability Exterior building profiles are exposed to various stress factors linked to outdoor conditions: variation of temperature, solar exposure, effect of water (significant potential impact on window materials in terms of function or appearance), and so on. For this reason, these exterior profiles need to be resistant and durable.

With ProVinyl, BENVIC offers a set of solutions meeting the highest standards of durability. Depending on countries, materials are certified to demonstrate such performance.

BENVIC capitalises on years of experience regarding long-term material aging and how to compensate for it. This enables rugged materials to endure for decades of service and is a major advantage for any manufacturer.

ProVinyl
contribution to
the
performance

Aspects and colors Whatever the basic material, appearance is the major contributor to the value of building exteriors or swimming pool covers. BENVIC provides a wide array of solutions with valuable properties, from color on demand up to surface brightness, transparency and texture, from optimized materials to decorative film deposition. Color resistance against UV aggression is also a key asset of our materials.

Dimensional stability Since window frames are exposed to high temperatures or direct sun, they need good thermal stability to avoid deformations through time. BENVIC grades are specifically designed to meet such requirements whether for PVC frames or for thermal rupture profiles.

Integrated insulation for cladding. Using PVC helps ensure that the latest and most efficient windows systems remain affordable for budget homes. Aside from high performance products, BENVIC also provides more basic compounds for cost-effective use.

Key benefits

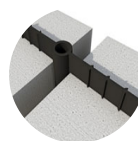
-  **UV resistance** color resistance against ageing
-  **Color on demand** existing color range
-  **Dimensional stability** against thermal stresses
-  **Brightness** different finishes from matt to gloss
-  **Shock resistance**
-  **Fire resistance**
-  **Hardness modulation** for seals

 **Weldability** for easy junction assembly



Decking

Presentation	Country of origin	Certifications	Benefits	Main features or applications	Process
Pellets Dryblend	FR		   	High mechanical performance Embossing - Gloss finish	Extrusion
Pellets Dryblend	FR		 	Durability Coextrusion capable	Extrusion Co-extr.
Pellets Dryblend	FR	 QB60	 	Durability	Extrusion



Bulding seals

Presentation	Country of origin	Certifications	Benefits	Main features or applications	Process
Pellets	UK			Conservatory parts Low migration to ABS and PC	Extrusion



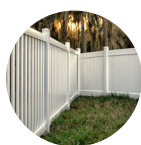
Cladding & wall covering

	<i>Process</i>	<i>Main features or applications</i>	<i>Benefits</i>	<i>Certifications</i>	<i>Country of origin</i>	<i>Presentation</i>
ER017	Extrusion	General purpose Value grade			FR	Pellet
ER207	Co extr.	Thin wall extrusion High gloss finish			FR	Pellets
ER214	Extrusion Co extr.	Gloss finish Value grade			FR	Pellets
ER352	Co extr.	Thin wall extrusion Frost finish			FR	Pellets
ER453 / ER455	Extrusion	General purpose Soffit application			FR	Pellets
ER753	Extrusion	Value grade Soffit under roof			FR	Pellets
ER449	Extrusion	High mechanical performance Embossing / Gloss finish			FR	Premix
ER459	Extrusion	Under roof use			FR	Pellets
ET455	Extrusion	Dark color adapted			FR	Pellets
ER759	Extrusion	Under roof use Value grade				
ET860	Extrusion	Dark color adapted			FR	Pellets
PEX003	Extrusion	Expanded Core profile for insulation			FR	Dryblend
PXT087	Extrusion Co-extr	Expanded Thermoresistant			FR	Dryblend
ER464	Extrusion	Tropical environment			SP	Pellets



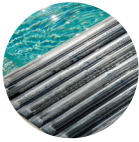
Building accessories profiles

	<i>Process</i>	<i>Main features or applications</i>	<i>Benefits</i>	<i>Certifications</i>	<i>Country of origin</i>	<i>Presentation</i>
ER025	Extrusion	Thin wall - gloss finish Fire resistance	 		FR	Pellets
EH660	Extrusion	General purpose	  	UL94	FR	Pellets
ST/61CZ-0	Extrusion	General purpose High gloss finish	 		PL	Pellets
CRE15/016	Extrusion	Scaffolding support / barriers	  		UK	Pellets
CRE13/058	Extrusion	General purpose Various uses	  		UK	Pellets
CRE08/156	Extrusion	Window surround beam	   		UK	Pellets



Fences

	<i>Process</i>	<i>Main features or applications</i>	<i>Benefits</i>	<i>Certifications</i>	<i>Country of origin</i>	<i>Presentation</i>
ER191	Extrusion	High perceived quality Gloss finish	  	 QB60	FR	Pellets
ER198	Extrusion	Durability	 	 QB60	FR	Pellets Dryblend
ER210	Extrusion	Value grade	 	 QB60	FR	Pellets
ER212	Extrusion	Concealment	 		FR	Pellets
ER464	Extrusion	Value grade	 		FR SP	Pellets



Swimming pool shutter

	Process	Main features or applications	Benefits	Certifications	Country of origin	Presentation
ER125	Extrusion	Transparent Solar cover			FR	Pellets Dryblend
ER161	Extrusion	Opaque High gloss finish	 	QB60 NF P90-308	FR	Pellets Dryblend
ER180	Extrusion	Opaque Cost/finish optimized	 	QB60 NF P90-308	FR	Pellets Dryblend
ER206	Extrusion	Opaque Value grade	 	NF P90-308	FR	Pellets
EH213	Extrusion	Translucid Smoked	 	NF P90-308	FR	Pellets
EH610	Extrusion	Transparent	 		FR	Pellets
EH612	Extrusion	Translucid Blue	 	NF P90-308	FR IT	Pellets
EH650	Extrusion	Transparent			FR	Pellets
EH611	Extrusion	Translucid Transparent	  		IT	Pellets
ST/20CZ-0	Extrusion	High impact resistance	 		PL	Pellets

Support

As leading specialist of PVC compounding, BENVIC supports its customers during the whole production process, from design to manufacturing to after-sales services. For any support, please contact your closest BENVIC sales representative or consult our website at benvic.com.

Technical data sheets, processing recommendations and other supporting data are available upon demand. The information given here above is general commercial information, cannot be considered as a specification and can change without prior notice. Benvic also supports customers through continuous adaptation of its products: please contact your nearest sales representative for technical support.



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BENVIC IS POWERED
BY GREEN ENERGY