



Reshaping plastics. For good.

POLYPROPYLENE COMPOUNDS FOR EXTRUSION

An excellent addition to the range



An extra solution for profiles

PVC is widely used today in the creation of various profile shapes and extrusions; from tubes and pipes to window profiles and various building applications. However, PVC can see its applications limited for at least the medium term: increasing regulation, customer perceptions and technical constraints could all shorten the horizon for the future.

Any effective substitute for PVC would need to perform and compete at the same level. One potential material substitute is, of course, polypropylene based. However, and to date, PP has been mainly formulated for injection molding process.

Benvic is filling this gap by dedicated part of the PP compounds, DotCore, with extrusion grade range.

Applications

- ✓ Building
- ✓ Furniture
- ✓ Fluid management
- ✓ General purpose profiles
- ✓ Electrical parts



A full range

The DotCore range for extrusion is covering the whole set of usual PP compounds, regarding resin type, reinforced or filled versions, flame retardant and colors.



Bespoke formulations

Aside the off the shelves versions, BENVIC is able to develop specific formulations of end use or conversion process optimization. What's makes our success on PVC compounds is now possible for PP.



Available with recycled content

As available for injection grade, the DotCore extrusion range is eligible for recycled content from 20% to 90%, post industrial and / or post consumer depending targeted performances.

A suitable range extension for PP compounds

Based on major PP grades, Benvic's new formulations has been adapted in order to provide a lowered Melt Flow Index (MFI) that is fit for purpose with extrusion. An extensive variety of the usual PP grades have been made possible by Benvic for extrusion, including:

- Resin type: copolymer or homopolymer
- Fillers: Talc, calcium carbonate or glass fiber filled
- Different colors
- Flame retardancy, V0 or V2 with halogen free or halogenated
- Compatibility with thermoplastic elastomers DotFlex for co extrusion



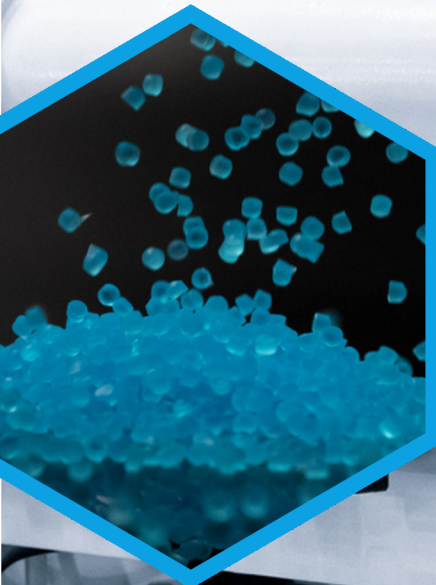
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TECHNICAL DATA

Major DotCore PP compounds for extrusion

	Type	Density	Tensile modulus	Tensile strength
PP H20 00 GF 1	Homopolymer 20%GF reinforced	1.04 g/cm ³	4500 MPa	72 MPa
PP H30 00 GF 1	Homopolymer 30%GF reinforced	1.12 g/cm ³	6700 MPa	85 MPa
PP H20 00 TR 1	Homopolymer 20% talc filled	1.05 g/cm ³	2800 MPa	32 MPa
PP C30 00 TR 1	Co-polymer 30% talc filled	1.13 g/cm ³	2900 MPa	23 MPa
PP H30 00 TR 1	Homopolymer 30 % talc filled	1.15 g/cm ³	3800 MPa	32 MPa
PP RH40 00 TR 1	Recycled 40 % talc filled	1.26 g/cm ³	3600 MPa	28 MPa
PP H40 00 TR1	Homopolymer 40% talc filled	1.27 g/cm ³	4800 MPa	31 MPa
PP 5000/V0-AF-EP XE	UL94-V0 Halogen free	1.07 g/cm ³	2000 MPa	20 MPa
PP H00 00 1 V2 HF	UL94-V2 Halogen free	0.92 g/cm ³	1800 MPa	34 MPa



Redesigning plastics. For good.

BENVIC innovates every day - enabling every customer to develop new products that meet the challenges in the emerging circular economy. BENVIC provides new solutions in recycling and biosourcing - helping circular applications find just the right material fit - each and every time.



To get more

