



Redesigning plastics. For good.

Engineered polypropylene
compounds



TAILORED MADE POLYPROPYLENE

Polymer compounding is the essence of adapting various materials for particular applications and environments.

The skills of the compounder are always key in bringing new products to market.

Benvic - Europe's leading compounder since 1963 - has over sixty years of experience balancing cost, performance and innovation for its PVC-based compounds.

And Benvic now brings the same successful technology to its new range of polypropylene compounds, DotCore PP.

Benvic's DotCore PP compounds serve the market demand for the excellent cost / performance ratio that is offered by polypropylene. The materials are currently enjoying great demand - with ever more customisation for particular products and applications.

Requesting these bespoke material features is becoming more and more frequent. The key issue then is finding the right solution with the right compounder. Benvic answers that call with DotCore-based PP technology; generating precise and scalable formulations for optimum outcomes.

The logo for dotcore, featuring the word "dotcore" in a lowercase, sans-serif font. The "dot" is white and set within a blue circle, while "core" is blue. The background of the slide features a pattern of blue dots of varying sizes, some of which form a circular shape around the logo.

A scalable formulation system



Mineral filled and glass fiber reinforced



Color matching



Thermal resistance



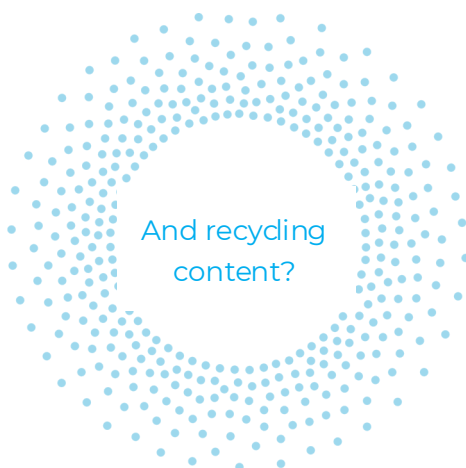
Flame retardancy



Melt flow index modulation

DOTCORE PP - GLASS FIBER REINFORCED

<i>Catalogue P/N</i>	<i>Type</i>	<i>Process</i>	<i>Density [g/cm³]</i>	<i>Modulus [Mpa]</i>	<i>Tensile Strength [Mpa]</i>	<i>Melt Flow in- dex 230°C/2.16kg</i>
PP C20 00 GF 2	Co-polymer 20% GF reinforced	Injection	1.04	3600	60	9
PP C30 00 GF 2	Co-polymer 30% GF reinforced	Injection	1.12	6000	75	7
PP H10 00 GF 3	Homopolymer 10% GF reinforced	Injection	0.97	2900	50	15
PP H15 00 GF 3	Homopolymer 15% GF reinforced	Injection	1.00	3800	60	12
PP H20 00 GF 1	Homopolymer 20% GF reinforced	Extrusion Injection	1.04	4500	72	3.5
PP H22 00 GFT 1	Homopolymer 20% GF / Talc	Injection	1.04	3800	55	5
PP H25 00 GF 2	Homopolymer 25% GF reinforced	Injection	1.08	5500	76	6
PP H30 00 GF 1	Homopolymer 30% GF reinforced	Extrusion Injection	1.12	6700	85	3
PP H30 00 GF 3	Homopolymer 30% GF reinforced	Injection	1.12	7000	90	13
PP H32 00 GFT 1	Homopolymer 30% GF / Talc	Injection	1.13	5000	75	5
PP H35 00 GF 1	Homopolymer 35% GF reinforced	Injection	1.18	7900	92	3
PP H50 00 GF 1	Homopolymer 50% GF reinforced	Injection	1.32	11000	108	3
PP H 30 00 GF 1 FR V0 HF	Homopolymer 30% GF reinforced	Injection	1.35	8000	78	4



Benic has also developed a specific Dot-R range for engineered thermoplastic compounds that is based on recycled material. The product family Dot-R PP offers alternatives to virgin material without any compromise in quality or performance. Please ask to your nearest sales representative for more information

DOTCORE PP - MINERAL FILLED

Catalogue P/N	Type	Process	Density [g/cm ³]	Modulus [Mpa]	Tensile Strength [Mpa]	Melt Flow index 230° C/2.16kg
PP C20 00 TR 1	Co-polymer 20% talc filled	Extrusion Injection	1.05	2800	32	2.5
PP C20 00 TR 2	Co-polymer 20% talc filled	Injection	1.04	2000	24	8
PP C25 00 TR 3	Co-polymer 25% talc filled	Injection	1.1	2200	23	18
PP H20 00 C 2	Homopolymer 20% CC filled	Injection	1.04	2000	26	10
PP H20 92 TR 3 V2	Homopolymer 20% CC filled FR	Injection	1.01	2200	30	36
PP H25 92 TR 1	Homopolymer 25 % talc filled	Extrusion Injection	1.09	3200	32	2.5
PP H30 00 TR 1	Homopolymer 30 % talc filled	Extrusion Injection	1.15	3800	32	2.5
PP H30 00 TR 3	Homopolymer 30 % talc filled	Injection	1.15	3700	33	20
PP H40 00 CC 4	Homopolymer 40 % CC filled	Injection	1.24	2800	24	30
PP H40 00 TR 1	Homopolymer 40 % talc filled	Extrusion Injection	1.27	4800	31	2.7
PP C40 92 CC 1	Co-polymer 40% CC filled	Extrusion Injection	1.21	1900	20	2.7
PP H22 92 T HT 3	Homopolymer 22% talc filled HT	Injection	1.05	2600	30	15

How to order*

P	P						
Type	Filler amount in %	Color code	Filler type	MFI	Extra		
H Homopolymer		00 Natural	TC Talc/CC	1 1-5 g/10mn	HT Thermal resistance		
C Copolymer		12 White	TR Talc rigid	2 5-11 g/10mn	FR Self extinguishing		
		34 Orange	CC calcium carbonate	3 11-25 g/10mn	UV UV stabilization		
		44 Red	GF Glass fiber	4 >25 g/10mn	NF No fogging		
		54 Brown	GFT Glass fiber - Talc		D Detergent resistant		
		64 Green			AS Antistatic		
		74 Blue					
		84 Purple					
		92 Black					

*Nota: Depending options offered, all configurations are not available. Please consults your closest BENVIC sales representative for checking product availability.

APPLICATIONS



AP

Structural, aesthetical and electrical parts



AUTOMOTIVE

Exterior, interior and under the bonnet parts



BUILDING

Concrete reinforcement, fixation, junction and locking accessories, panels, slabs, flooring, grilles



ELECTRICAL
ELECTRONICS

Pipes, junction parts, derivation, wall boxes



FURNITURE

Tables, cabinets, chairs, profiles



FLUID MANAGEMENT

Pipe, tubes, fittings, valves, accessories



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BY GREEN ENERGY