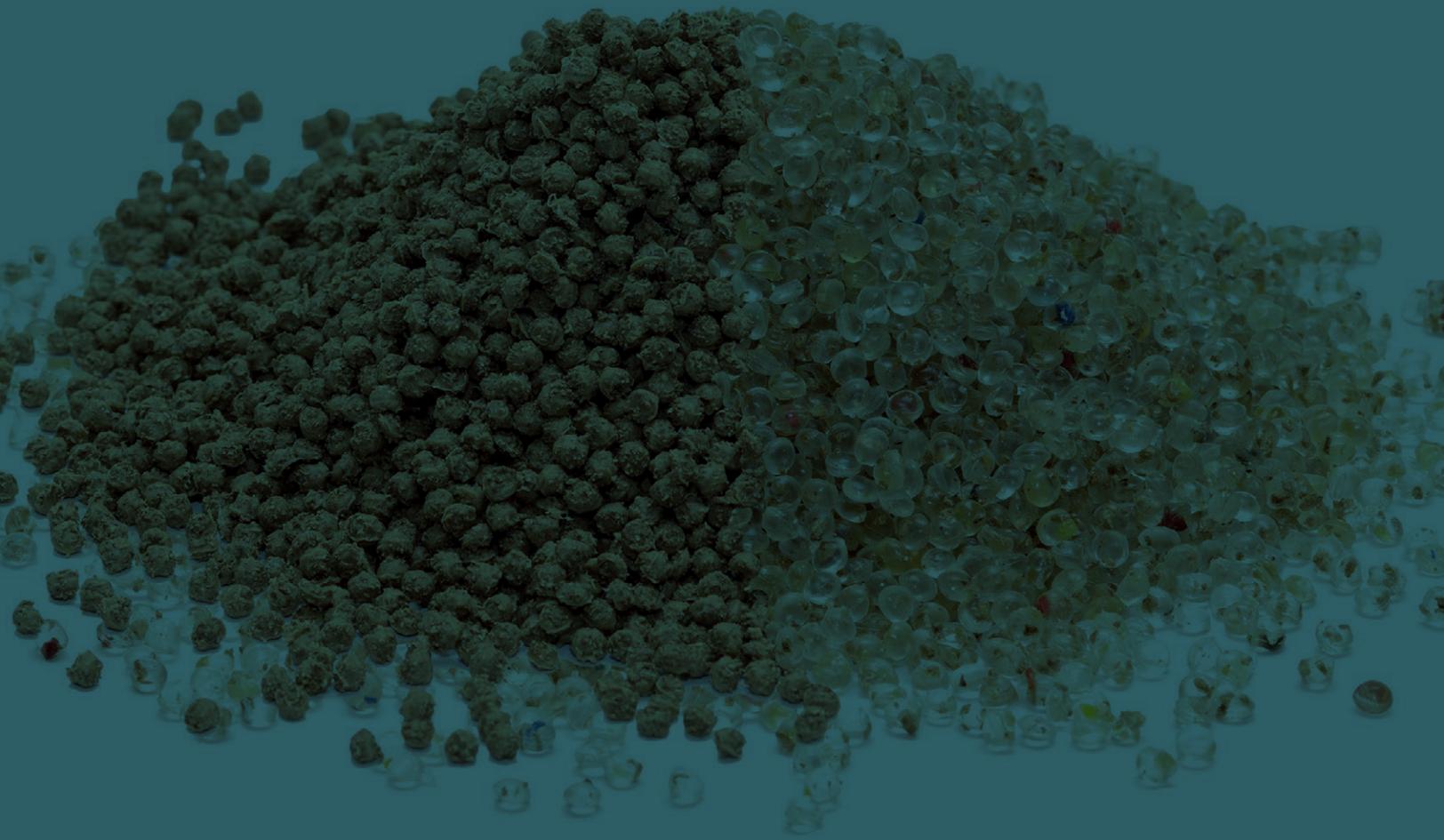




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# Technical bulletin

# **CPCs for the visual parts of vehicles**



# CPCs - Cork Polymer Compounds

Developed by Amorim Cork Composites' i.cork factory, CPCs are a range of cork polymer compounds, offering the moldability of polymers and the lightness and sustainability of cork.

Cork polymer compounds replace conventional plastic with a sustainable alternative keeping the performance and aesthetics desired for the application.

The result is a reduced CO<sub>2</sub> footprint, increased lightness, improved thermal and acoustic properties or grip performance. CPCs are suited for applications in various market segments seeking a high-performance, bio-based alternative to polymers.

## Key benefits

### Sustainable

Cork can offset partially plastic's carbon footprint  
1 ton of cork retains up to 73tons of CO<sub>2</sub>



### Weight reduction

Reduction of final product weight due to introduction of cork



### Shock absorption

Cork allows a better shock absorption



### Anti-Slip

Cork has high anti-slip properties



### Customization

Wide range of CPCs customized to customers' needs



# Sustainable CPCs

## Replacing Plastic

Up to 70% of plastic replacement per volume

## Recycling and reprocessing

CPCs can be collected, recycled and reused by ACC in other products

## Sustainability

Possibility to use industrial or domestic compostable raw materials

## Bio-based

Possibility to use polymers coming from bio sources

## Product range

	MIC203	MIC221	MIC222	MIC716	MIC716	MIC434	MIC303
Polymer	rPP	PP	PP (w/talco)	TPU	TPU (w/ embossing)	TPE	SBS
% w.cork	10%	25%	5%	15%	15%	10%	25%
Cork Particle Size (mm)	0.5 – 1	< 0.5	0.5 – 1	1 – 2	1 – 2	0.5 – 1	0.5 – 1
Appearance – Color	Black	Natural	Dark Grey	Black	Black	Beige	Multicolor
Density (kg/m <sup>3</sup> ) <sup>(1)</sup>	938*	830*	1070*	1148*	1148*	913*	900 – 100*
Hardness (Shore A) <sup>(2)</sup>	92*	77*	70*	87*	87*	64 – 70*	68*
Tensile Strength (MPa) <sup>(3)</sup>	20.1*	19.6*	53.0*	12.0*	12.0*	3.5*	> 0.75*
Elongation at Break (%) <sup>(3)</sup>	6.1*	7.9*	16.2*	390*	390*	287*	> 200*

(1) Based on DIN EN ISO 1183-1(A) (2) DIN 53505-A (3) ISO 527-2 \*Typical Values

## Texture & colour examples



P302



P304



N600



P100



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