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Today we are at the point where we have to make a stand. We now have to decide in which direction we are heading regarding the future of our environment. Restrictions and regulations on the use of harmful materials and CO<sub>2</sub> emission are therefore being enforced on a global scale. At the same time, consumer awareness are rapidly changing. Taken together, this means that developing eco-friendly products will in the future be the requirement for a sustainable business. Companies that already today are responding actively on these signals are in return getting positive response from the society in large and their consumers in specific.

Today we have the opportunity together with Samsung Cheil Industries, to offer bio-based and PCM-based materials with a more eco-friendly characteristics.

Materials that will help us towards a sustainable future.



## SUSTAINABLE BUSINESS

## mape plastics + SAMSUNG

Mape Plastics expand the collaboration with Samsung Chemical Europe GmbH with new eco-friendly material. Below you find a list with the main products as well as a broader presentation of our eco-friendly materials.

- **STYRENICS MATERIALS**

No Painting and Scratch Resistant, Flame Retardant ABS, Flame Retardant HIPS, Extrusion ABS, Transparent ABS, EPS, SAN, ASA etc.

- **ENGINEERING PLASTICS**

PC, Flame Retardant PC, PC/PMMA, PC/PBT, PC/ABS, PBT, PPS, PPA etc.

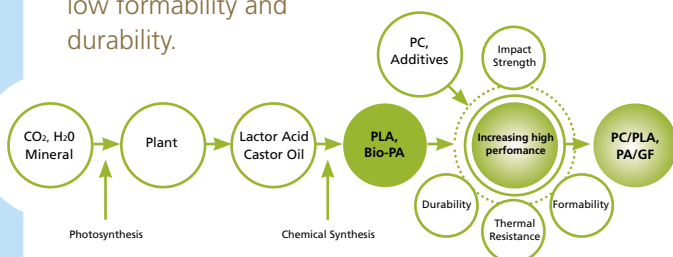
- **INNOVATIVE MATERIALS**

PC Film, Micro Bread, CNT Composite, Thermo Conductive Composites etc.

- **ECO-FRIENDLY MATERIALS**

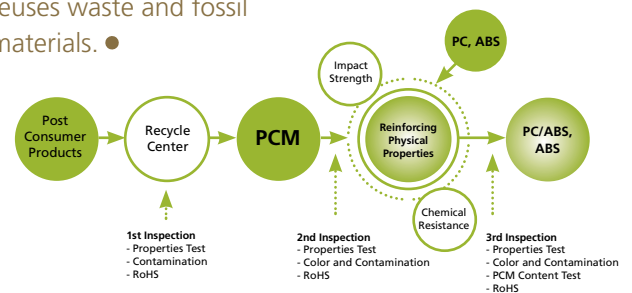
PCM-based Material, Bio-based Material, EF Process

**BIO-BASED MATERIAL.** Based on PLA (polylactic acid), a biopolymer that is synthesized by polymerizing lactic acids generated from agricultural feedstocks. PLA cannot be used independently because it is vulnerable to heat and impact and has low formability and durability.



To overcome these limitations of PLA, Samsung Cheil Industries have developed products with balanced physical properties by blending PLA with PC and ABS. Substituting the conventional PC materials with PC/PLA will reduce the emission of CO<sub>2</sub>, a greenhouse gas, by 30% to 40%. ●

**PCM-BASED MATERIAL.** Based on PCM (Post Consumer Materials), a synthetic resin that is produced from reclaimed plastic parts after their normal service life. Cheil Industries provides unbeatable product quality backed by its own polymerization and compounding know-how. The PCM content in ABS, PC/ABS can be adjusted to the customers' request. PCM-based material reduces the uses of CO<sub>2</sub> and reuses waste and fossil materials. ●



**PROVIDING BENEFITS.** One of the main causes of environment concern relates to the gas CO<sub>2</sub>. Samsung Cheil Industries use the eco-friendly methods of Non-phosgene, a CO<sub>2</sub>-based material, which is one of the major



components to manufacture PC. This method is an effective solution to reduce the amount of CO<sub>2</sub>.

The handling of the yearly plastic disposition is also considered to be an issue for environment pollution. Samsung Cheil Industries has anticipated this problem and succeeded in mass-production of plastic containing materials derived from disposed PET bottles for the first time. PCM-based resin (30%) of Cheil Industries use 13.400 disposed PET bottles per ton. ●



DESCRIPTION	PRODUCT	ENVIRONMENTAL FRIENDLINESS		
		CO2	Hazardous matter	Energy
Bio-based Material	Bio-synthetic materials	Down	-	-
PCM-based Material	PCM applications	Down	-	-
Eco-Friendly Process	Polycarbonate	Down	-	-
	Scratch resistance	Down	Down	Reduced
	Special Color	Down	Down	Reduced
	Non Halogen	-	Down	-

We stock all the material you find below. Stock goods ordered before 10 AM delivered in 1-2 days.

If you have any questions, don't hesitate to call.

- ABS
- PA6.6
- PC/ABS
- PES
- PPA
- ASA
- PA4.6
- PC/PBT
- PET
- PPS
- MPPE
- PBT
- PEEK
- POM
- PSU
- PA6
- PC
- PEI
- PP
- SAN

We represent several leading brands in the Nordic Region, here are a few of them:



## mape plastics

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