Sustainability with LG Chem

Connecting science to life for a better future

LG Chem is a global leader in the development and production of a wide range of chemistry products. Their extensive polymer portfolio provides cutting edge solutions across multiple industries.

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LG Chem is the first Korean chemical company to declare 'Carbon Neutral Growth by 2050', by keeping carbon emissions level with 2019 whilst pursuing sustainable growth. They have also committed to RE100 – pledging that all LG Chem products will be made with renewable energy by 2050.

LG Chem pursues sustainable innovation based on its 'Sustainability Vision', which includes customer, environment, and social value throughout its business activities.

As such, their sustainable polymer portfolio is thorough and versatile, and includes key polymer types such as PC, PC/ABS, PBT, PET, TPEE and PA66. These are considered sustainable by being mechanically / chemically recycled, bio-based, and biomass balanced. LG Chem's superior processing techniques ensure that all materials maintain the key properties and strengths as their virgin equivalents.

Mechanical Post-CR Materials:
Products are made using 20-85% post-consumer recycling materials from sources such as home appliances, CDs, water bottles etc.

Chemical PRE-CR Materials:
Products are made by polymerisation using chemical recycling monomer recovered from waste artificial marble material through pyrolysis.

LG Chem's Biomass Balance Approach:
Contributes to the use of renewable raw materials in conventional production systems and can be applied to the majority of the products in its portfolio. LG Chem's bio-balanced materials can reduce the CO2 emissions in the scope of cradle-to-gate by 102%, compared to conventional fossil-based naphtha.

LG Chem's Bio-Based Materials:
Products are made through the careful fermentation of biomass source raw ingredients such as corn and sugar cane.

Sustainability method	Definition	LG Chem product groups
Mechanical recycling	Recovering plastic waste via mechanical processes (i.e. grinding, washing, separating, drying, re-granulating and compounding).	PC, ABS PC / ABS PBT / PET
Chemical recycling	Changing the chemical structure of the polymer to convert back into chemical building blocks, including monomers that are then used again as a raw material in chemical processes.	PC, ABS PC / ABS PBT TPEE
Bio-based polymers	Producing polymers using biological raw materials, in this case corn and sugar cane which is fermented.	PBT TPEE PA56 (PA66 replacement)
Biomass balanced polymers	Combining fossil-based and renewable resources in the production method to shift away from non-renewably resources whilst keeping track of quantities and allocating them to specific products.	PC, ABS PC / ABS

Sustainability at Distrupol

Acting responsibly, safely and with integrity, in order to contribute to a sustainable future.

For further information visit
www.distrupol.com/sustainability