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PRESS INFORMATION

EMS-GRIVORY widens the range of bio-polyamides and completes eco-balance sheets.

Bio is not the same as Bio. Without a clear contribution towards lowering environmental impact, primarily through a reduction in emissions of the greenhouse gas CO_2, bio-polymers have little meaning.

For the Fakuma 2009, EMS-GRIVORY has widened its range of bio-polyamides in the GreenLine Series, which includes Grilamid 1S PA1010, Grilamid 2S PA610, Grilamid BTR (amorphous, transparent PA) and Grivory HT3 (polyphthalamide = PPA), with new, tailor-made compounds and, through extensive studies, has determined the environmental balance sheet of each individual GreenLine product.

Thanks to refined formulations, these new compounds provide specifically optimised properties for use in the automotive field - for components in fuel, cooling and hydraulic systems as well as in interior and exterior applications. Further uses for these materials are also planned however, in electrical and electronic applications as well as in the sport and leisure market.

GreenLine products are made up partially or completely of derivatives of the biological raw material castor oil. The castor oil plant, an annual plant of the spurge family, is today mainly cultivated on a large scale in India. During the growth phase these plants are capable of binding large amounts of CO_2. The castor oil seeds contain a large share of useful oil which can be modified using chemical processes to create primary raw materials for various bio-polyamides.

GreenLine products are only ecologically meaningful when an appreciable lowering of greenhouse gas emissions can be achieved. In this regard, it is absolutely necessary to look at the complete process – from cultivation of the castor oil plant right up to manufacture of the individual moulding compounds – in great detail regarding the mass and energy balance sheets. Thanks to complex studies carried out in close cooperation with suppliers, EMS-GRIVORY has been

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able to draw up detailed environmental balance sheets for the GreenLine products and to compare these with the balance sheets of equivalent polyamides manufactured from crude oil.

During the manufacturing process at the production site in Domat/Ems, Switzerland, EMS-GRIVORY makes use of a uniquely high share of CO_2-neutral energy, for example as hydroelectricity or in the form of process steam produced by a biomass power station. These factors further improve the balance sheets which show that using Grilamid 1S PA1010 or Grilamid 2S PA610 moulding compounds, the CO_2 emissions can be reduced by seventy or more percent depending on the degree of reinforcement. With the partially bio-based material Grilamid BTR, an amorphous transparent bio-polyamide, the reduction in CO_2 emissions compared to traditional transparent polymers such as PMMA or PC, is more than 40 %.

GreenLine products have property profiles which are directly comparable to those of conventional polyamides based on crude oil, and are not biodegradeable.

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Picture: GreenLine Logo.jpg

The GreenLine logo from EMS-GRIVORY characterises polyamides which are manufactured based on renewable raw materials.

Picture: Castor_seeds.jpg

Castor oil seeds contain a large share of useable oil.

Picture: Bio Granulate TR.jpg

GreenLine polyamides exhibit an excellent ecological balance sheet.

Picture: Castoroil_plant.jpg

During the growth phase, Castor oil plants can bind a large amount of CO_2.

Contact for technical questions

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