Domat/Ems, 22. Dezember 2009

PRESS INFORMATION

NEW STREET NAME FOR EMS-CHEMIE AG - VIA INNOVATIVA 1

Dear Sir, Dear Madam

A new street name has been assigned to EMS-CHEMIE AG and its Business Unit EMS-GRIVORY. Note, though, that the physical location remains the same.

The new street address is valid from 1 January 2010.

I wish you and your family a Merry Christmas and a happy New Year!

Sincerely vours.

Christian Morf
Vice President Sales & Marketing

NEW:

Via Innovativa 1
CH-7013 Domat/Ems

until now:

Reichenauerstrasse
CH- 7013 Domat/Ems

Click on the following link for our digital Christmas greetings:
http://www.emsgrivory.com/mytools/Weihnachten/christmas_e.html

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GRIVORY GVL long-fibre technology.
Products, that don't get stressed.

With long glass-fibre reinforced Grivory GVL, a new material is entering the market which is unfazed by both water uptake and high temperatures. Grivory GVL opens up new possibilities for the light-weight design of dynamically stressed components.

EMS-GRIVORY presents the long glass-fibre reinforced Grivory GVL products at the FAKUMA 2009. The combination of Grivory polyamides which are indifferent to water uptake, with the long glass-fibre reinforcement, creates products with exceptional properties which are unaffected by water uptake or high temperatures.

These long glass-fibre products combine the well-known properties and advantages of the partially aromatic polyamides from EMS-GRIVORY with the structure-typical properties of a fibre-felt-structure in the injection-moulded components. Long glass-fibre reinforced products from EMS-GRIVORY exhibit up to 25% higher stiffness and strength values at temperatures above the glass transition point and moisture has almost no influence on this. The high stiffness values are combined with improved notched impact strength and excellent absorption of energy, which is only possible due to the special long glass-fibre structure, particularly in the case of high-temperature materials. The resulting materials enable completely new, cost-saving applications to be achieved, above all in the field of metal replacement.

Grivory GVL-5 in a conditioned state, for example, exhibits tensile stress at break and stiffness values of freshly moulded 50% long-fibre reinforced PA66 grades. This enables lighter-weight plastic components with lower material requirements to be manufactured. Grivory GVL products also show further strengths: The flexural fatigue strength values are considerably better than those of established die-cast metals. Flexural stress of up to 100 MPa at 10 million load cycles is sustained without break, a value which, especially for dynamically stressed components, opens up new possibilities in light-weight construction.

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Regarding creep behaviour, the Grivory LFT products also achieve new fields of performance. The 50% long glass-fibre reinforced Grivory GVL-5H exhibits less than 0.2% creep elongation after more than 12 months at 120°C and under a stress of 40 MPa.

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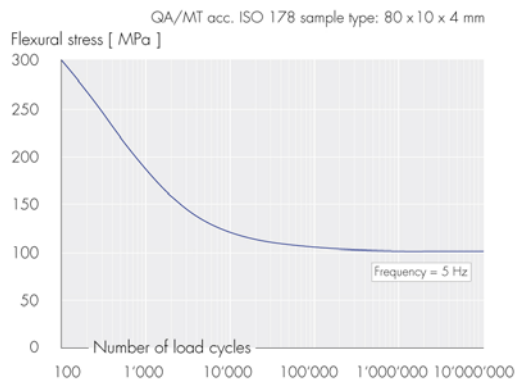
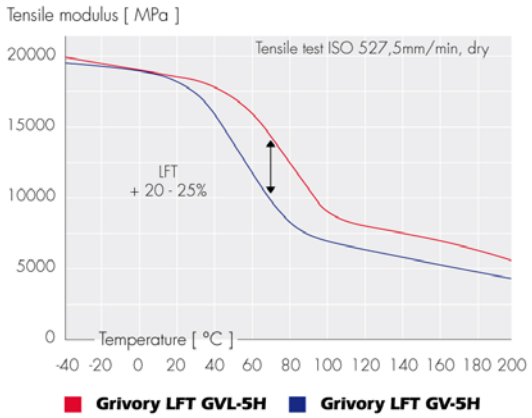
Bild: Diagram_Performance_GVL_ENG.jpg



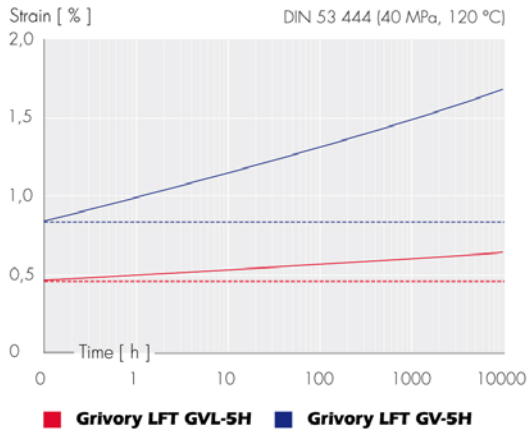
Grivory GVL-6 H achieves long-term strength of 100 MPa at 10 million load cycles

Bild: Diagram_stiffness.jpg



A significant increase in stiffness at high temperatures thanks to long glass fibres

Picture: Diagram_creepbehaviour.jpg



Extremely low creep for GVL-5H: at 120°C and 40 MPa less than 0.2% creep elongation.

Picture: Tulip.tif

Long fibres ensure stability and little warpage. Shown on the right is the fibre skeleton of the component after ashing.

Contact for technical questions

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