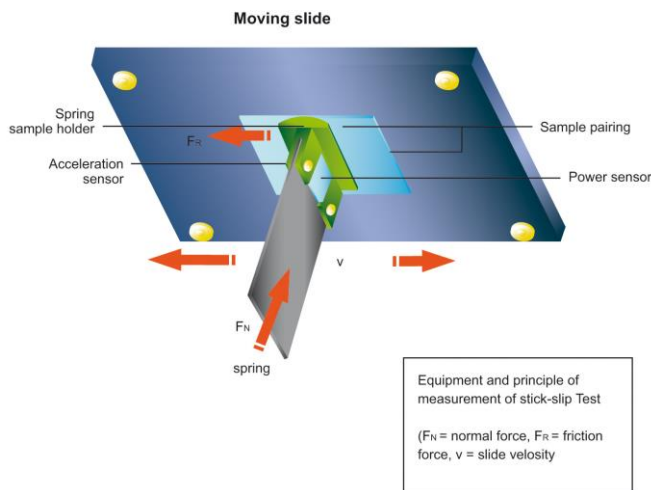


Tribology - functional plastic compounds

Pinneberg/Germany, April 7th, 2014 - For a number of years, ROMIRA has been successfully focusing on the development of tribological compounds for automotive manufacture and offers solutions for cases in which direct contact between components cannot be avoided for reasons of design engineering. In contrast to the complicated application of anti-squeal coatings or manual fitting of anti-squeak tapes at the contact points, the use of tribologically functionalised compounds is a cost-effective and permanent solution. In addition, using compounds from ROMIRA avoids the need for very expensive abrasion-resistant plastics.



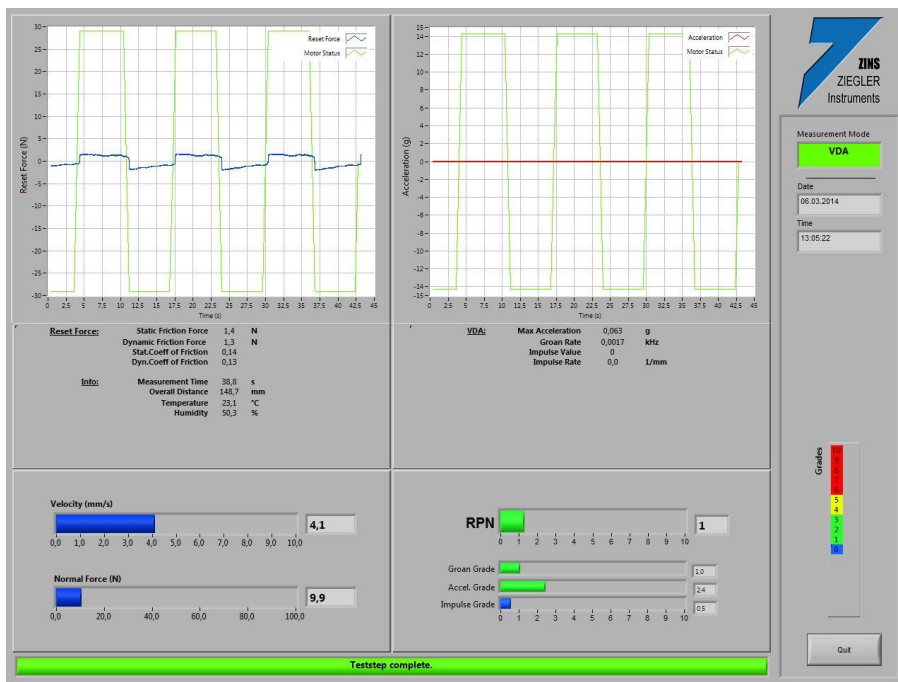
Nevertheless, particular attention must be paid to the friction pairs. Compounds have been specially developed for plastic components made of ABS, PC+ABS, PC+ASA and PA-blends that provide tribological advantages when paired against PA compounds with mineral or glass reinforcement. These compounds have another advantage over material solutions containing PTFE that have a lower surface quality and which undergo greater wear in continuous operation tests: they are characterised by

very good abrasion resistance and do not require an additional coating.

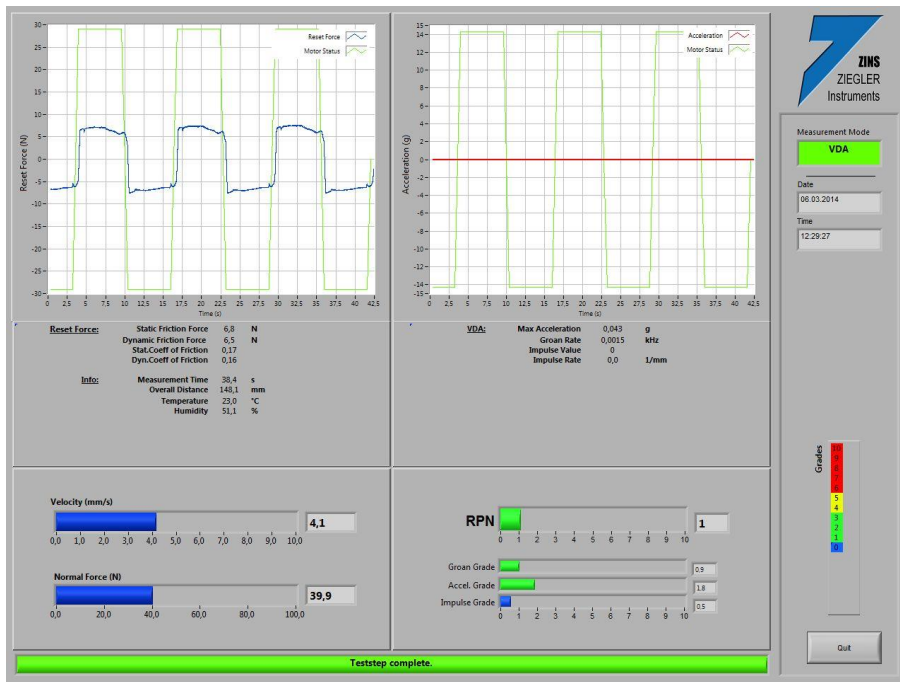
MATERIAL PROPERTIES					
material	asked menial gloss level	planning properties with PA 6 GF30 as a friction partner		lacquering concerning the look	behaviour of iteration
		23°C	90°C		
PC/ASA with PTFE	--	+++	+	essential	rubbing
ROMILOY® 6020/04 F	++	++	+	+	I.O.

Properties of PC/ASA blends containing PTFE compared to ROMILOY® 6020/04

Pictures 1 and 2 show the results of a friction pairing between PA66 GF30 and a PC/ASA compounds from ROMIRA ROMILOY® 6020/04 (tribological functionalized) compared to ROMILOY® 6020 (standard grade). The reduced friction resistance between the functional partners is clearly evident.



Picture 1: pairing: ROMILOY® 6020/04 and PA 66 GF30



Picture 2: pairing: ROMILOY® 6020 and PA 66 GF30

The most recent anti-squeak studies of various new formulations of PA66 GF30 based on a stick-slip test gave a risk priority number of between 1 and 2, which indicates a very low squeak risk under room temperature conditions. ROMIRA's development work is currently focusing on seating applications in vehicles with mounted and built-in parts that are in contact with synthetic leather.

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Text approved - Specimen copy requested

About the ROMIRA GmbH:

The ROMIRA GmbH was founded in 1990 and is an affiliated partner within the ROWA GROUP. As part of this strong combine, we set standards for technical plastics with our profound competence and synergetic know-how.

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