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Visit us at the IAA in Frankfurt on the Main, Germany
from 15 to 18 September 2015, hall 4.1, booth C17

Flexibility, Opportunities, Innovations

EDITORIAL

Dear Friends of BIW,

Requirements and requests for the material silicone as a high performance elastomer as well as the technical textiles in the cable protection sector – and thus also the demand for the problem-solving competence of BIW – are constantly increasing.

We meet this challenge by concentrating on the development of new materials such as the optical silicone qualities, by constantly revising our internal organisation and providing specialist education for our ever growing team.

However, all this is not just reserved for clients and interested parties who actively enquire and demand our services, but is also designed to be proactively introduced at trade fairs and symposiums. For the very first time this year BIW shall be exhibiting at the leading automotive industry fair, the IAA in Frankfurt, and introduce itself including the latest technical developments to a broad audience of experts during the professional visitor days.

We are not only pleased to provide quick and professional answers to your enquiries and supply you with samples in the shortest possible time, but also to welcome you during the professional visitor days at the IAA. You will be surprised about our wide product range and production technology along with the presentation form of the latest automotive articles from BIW.

Ralf Stoffels

Dr. Markus Wiethoff



BIW AND "THE BULLITT"

from 15 to 18 September 2015
at the IAA in Frankfurt on the Main

For the very first time, BIW shall be represented at the worldwide leading international automobile fair.

The BIW trade fair team will introduce the innovative portfolio of **CABLE PROTECTION SYSTEMS, SILICONE EXTRUSION AND SILICONE MOULDINGS** on 60 m² in **hall 4.1, booth C17**.

In conjunction with the large range of OEM-approved and field-tested solutions, the program is supplemented by numerous new developments in e-mobility and the heat protection area.

A special highlight at the BIW exhibition stand will be a petrol-coloured 1968 Mustang Big Block Hatchback. This design icon is well-known to both old timer and film enthusiasts from the Hollywood movie of the same name: „The Bullitt“. This motor vehicle, the first active product placement in a cinema movie by Ford, not only wrote history; the green Mustang received its concise name „Hatchback“ and became an automobile legend. Driven by Steve McQueen, „The Bullitt“ was involved in one of the first car chases over several minutes in the history of cinema. This exciting pursuit through the streets of San Francisco can be relived at the wheel of the Bullitt at the BIW exhibition stand.

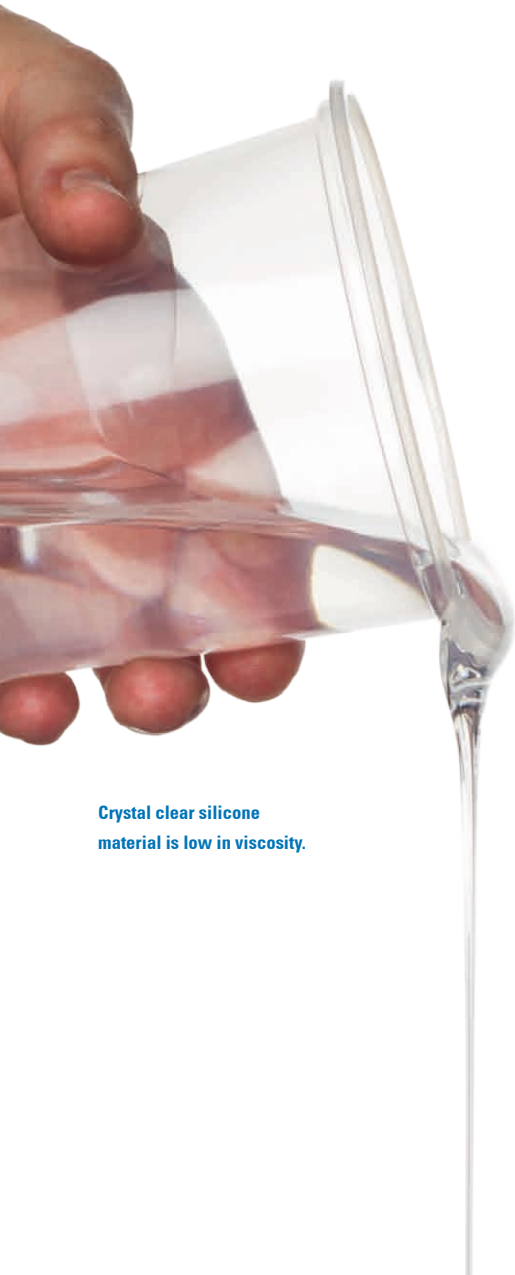


Equipped with modern protective hose and mould solutions by BIW in the engine and interior, the registered motor vehicle is also equipped for the present. The BIW products shown in action are introduced by our BIW trade fair team in dialogue with our customers.

The BIW automotive specialists are on site during the professional visitor days on 17 and 18 September 2015 (9:00 to 19:00 h), as well as the press during the press days on 15 and 16 September 2015 (8:00 to 19:00 h).

The trade fair is open to the public from 19 to 27 September 2015.

___ DIRK HOLSTEIN



Crystal clear silicone material is low in viscosity.

BIW HAS A CLEAR PERSPECTIVE

NEW SCOPES OF APPLICATION FOR CRYSTAL CLEAR MATERIALS IN OPTICAL APPLICATIONS

Processing of optical Liquid Silicone Rubber (LSR) – an alternative to highly transparent thermoplastic and glass

The economic production of complex geometries in the silicone moulding process is well known. Optical liquid silicone types vulcanised to highly transparent elastomers represent new process challenges and alternatives. Optical silicone is an excellent alternative for the industry to glass and highly transparent thermoplastics such as PC or PMMI.

As well as the extremely positive mechanical properties, such as ageing and permanent temperature resistance up to 200 °C, particularly the transmission values and light refraction index are highly significant in the crystal clear application. Optical silicone is furthermore electrically insulated, water repellent and flexible at low temperatures.

LSR crystal clear – a new market potential for various industries.

The scope of application particularly comprises fibre optics for the automotive industry, LED components, Xenon headlights, mobile phone cameras, street lighting and products for sensor technology. Moreover, the production of lenses and other optical elements will be realised with silicone components in the future.

Transparent standard thermoplastic and silicone materials generally tend to become yellow. Chemical processes are the reason for the discoloration. It is the nature of things. During the past years, some silicone manufacturers have addressed this topic in depth and have developed special formulas for these applications.

Advantage: crystal clear material for life, good transmission and light refraction values for optical fields of application.

The LSR components available in the market are generally produced in the LSR injection moulding process and are available in A and B component quantities of 20 and 200 kg. The difference from optical silicone is viscosity so that the optical LSR materials are low-viscous at room temperature when delivered - i.e. liquid, like water. This complicates processing and creates particular challenges for the injection moulding process.

Due to the high optical quality requirements for the components, the handling of the article is an important step in the process chain. Automatic extraction devices at the machine facilitate the handling.

The requirements for the optical surfaces demand enormous precision and purity with respect to tools as well as during production. BIW moulding has access to a clean room according to ISO 14644-1 Class 7 for this application.

Please contact us directly if you have questions regarding optical silicone. We are happy to develop the optimal solution also for your project – THAT'S CRYSTAL CLEAR!

__ SVEN BRAATZ

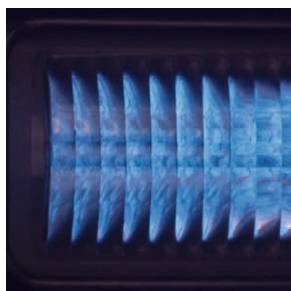
YOUR CONTACT



Sven Braatz
Sales Manager Silicone Mouldings

Tel: +49 (0) 2333 83 08 845
E-Mail: sbraatz@biw.de

Optical applications require ultimate precision with respect to processing and tool technology.





TEAM REINFORCEMENT FOR CUSTOMER-SPECIFIC PROJECT TASKS

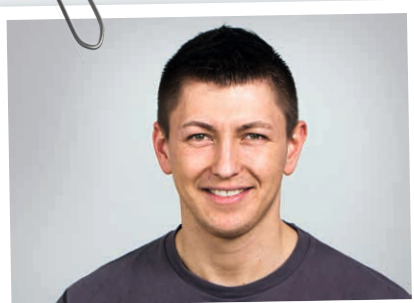
Direct hiring after successful completion of study
with practical Bachelor tasks

The technical expertise of BIW has increased further with the employment of two engineers since 1 August 2015. Following the successful conclusion of their Bachelor theses, **Marc Bernhard** and **Thomas Gruschka** are now able to help to support the corporate success full time.

The two young engineers are charged with technical production-supporting tasks in various functions. BIW considers itself a development partner for all customers, particularly with respect to optical projects, and is primarily capable of supporting interdisciplinary application technology and production due to the collaboration of the various involved divisions.

Lately, BIW has further reinforced its position as world market leader in silicone processing in the context of several development projects for automotive and medical applications and an internal Bachelor thesis pertaining to the "optical silicone" subject. First achievements have already been registered also in the combination of optical and standard material in the extrusion process.

Standard LSR in comparison



THOMAS GRUSCHKA B.Eng

AGE: 27

STUDY: MECHANICAL ENGINEERING WITH FOCUS
ON PLASTICS TECHNOLOGY FH (UNIVERSITY OF
APPLIED SCIENCE) ISERLOHN

AT BIW SINCE 2008

EMPLOYED AS ENGINEER IN DEVELOPMENT
AS AT 1 AUGUST 2015



MARC BERNHARD B.Eng

AGE: 25

STUDY: MECHANICAL ENGINEERING WITH FOCUS
ON PLASTICS TECHNOLOGY FH (UNIVERSITY OF
APPLIED SCIENCE) ISERLOHN

AT BIW SINCE 2006

EMPLOYED AS ENGINEER IN APPLICATION TECHNOLOGY,
MOULDING DIVISION AS AT 1 AUGUST 2015

WELCOME TO THE TEAM!

BIW RECEIVES AWARD FROM BUNDESAGENTUR FÜR ARBEIT (FEDERAL EMPLOYMENT AGENCY)

The Bundesagentur awards BIW with the official certificate for Nachwuchsförderung (sponsoring young talent) 2015 and thus recognises BIW Isolierstoffe GmbH for outstanding commitment to education.

"In times of enormous need for specialists, BIW makes an exemplary commitment to the education of young people. Each year, the company provides several apprentice position in a variety of occupations. Quality and continuity speak for themselves. BIW is furthermore involved in educational fairs and school projects. In doing so, the successful company supports young adults in the realisation of their occupational goals", so **Thomas Helm**, Manager of the Agentur für Arbeit Hagen, at the handover of the award to BIW Managing Director **Ralf Stoffels**.

The company is well aware of its social responsibility and has been assisting young people in their successful first step toward their career for many years. In August 2015, another five young people will commence their education at the Ennepetal location. Their perspective is good for further

career opportunities and full employment, following the successful conclusion of their education. Managing Director Ralf Stoffels is highly committed to people in the region and community work with his own foundation for social engagement, adolescents, culture and urban development.

"Seeing beyond one's horizon is an obligation for every successful company which is closely linked to its location – through its employees who are vital for the success of the company. Today, BIW is the European market leader and actively engaged in the world market as the so-called "hidden champion". In view of demographic development and the lack of experts, BIW sees no alternative to a dual education system and the investment in education", says Ralf Stoffels during the interview.



From left: Ennepetal Mayor Wilhelm Wiggenghen, BIW Training Supervisor Thomas Perian, Manager Agentur für Arbeit Thomas Helm, BIW Managing Director Ralf Stoffels, BIW Personnel Manager Uwe Göbel
Source: Carmen Thomaschewski/Westfalenpost



From left to right: Training Supervisor Thomas Perian, Training Supervisor Daniela Lombardi, our **new apprentices** Dimitra Tingili, Patrick Moll, Angelo Faraci, Tim Yannik Cramer, Maximilian Falz as well as our **newly employed previous apprentices** Stefanie Pabst, Laura Schorz and Jan Hirschberg. Missing from the photo are Ihsan Tokmak and Erdem Özdemir.

BIW WELCOMES FIVE NEW APPRENTICES

Five new apprentices will start their way into their future occupation on 3 August 2015 – four apprentices as processing mechanics for plastic and rubber technology under the guidance of their Training Supervisor Thomas Perian as well as one female apprentice as industrial business management assistant under the guidance of her Training Supervisor Daniela Lombardi.

We cordially welcome our new apprentices and wish them success! In addition, we would like to congratulate our former apprentices to the successful completion of their training.

Also in 2015, BIW has taken on its apprentices after the successful completion of their apprenticeship: three processing mechanics for plastics and rubber technology as well as two industrial business management assistants.

A cordial welcome to our specialists; we wish you lots of joy in your profession.

— ANJA LANGNER

THANK YOU TO EVERYONE CELEBRATING THEIR ANNIVERSARY

20 YEARS BIW

Ralf Richarz, 01.04.2015
Sabine Dittmann, 01.05.2015
Ongül Aras, 08.05.2015
Dr. Markus Wiethoff, 01.07.2015
Rita Hempel, 01.09.2015

25 YEARS BIW

Doris Stoffels, 27.02.2015
Anja Langner, 18.06.2015
Jens Trust, 01.08.2015

30 YEARS BIW

Karl-Heinz Alexander, 28.01.2015
Angelika Timmerbeul, 22.05.2015

Visit us at:



Fakuma

Friedrichshafen, from 13 to 17 Oct. 2015
www.fakuma-messe.de/en/fakuma



RETIREMENT OF MOHAMMED JUNUS ANWARI ON 31.03.2015

"BIW said good bye to their colleague Mohammed Junus Anwari, who entered his well-deserved retirement at the age of 65 after 28 years of work. We would like to thank him for his dedication and wish him all the best, particularly good health in his retirement."

IMPRINT

Responsible persons: Ralf Stoffels, Dr. Markus Wiethoff
Editorial staff: Ralf Stoffels, Dr. Markus Wiethoff, Anja Langner,
Dr. Hanns-Walter Tunger, Daniela Lombardi, SIHK
Layout and typesetting: lessingtiede.de

CONTACT

BIW Isolierstoffe GmbH
Pregelstraße 5, D-58256 Ennepetal, Germany
Tel.: +49 (23 33) 83 08-0
Fax: +49 (23 33) 83 08-10