



insight. MAGAZINE

No. 17



Cellular rubber • Cellular polyethylene • Sponge rubber • Fluid sealants • Rubber moulded parts • Filtration technology

► **Pipette filters**

A small product with a
important role

► **Liquid Seal**

Centre of excellence completed

► **Cellular Rubber with a huge range of properties**

Our product range continues to
grow

Oral-Nose Mask

FOMASK®

Skin compatibility confirmed
by OEKO-TEX®





Dear Readers,

I would like to assure you that this issue has nothing to do with the coronavirus. Somehow we are all longing for news that is not related to the pandemic. I can put your minds at rest: We have a lot to cover that is entirely unrelated to COVID-19. New cellular rubber products have been added to our wide range. As always, we have had our customers' interests in mind: firmer EPDMs, a softer high temperature-resistant EPDM, a new NBR and halogen-free qualities. Find out more on page 6.

Still, the coronavirus has had an effect on us. Previously the term "corona" was always something positive at KÖPP: a pre-treatment method for liquid seals. Since COVID-19, has spread around the world, the term leaves a bitter taste in the mouth for us as well. Particularly for our international sales team, Mélanie Baez, Kinga Kotwicka-Kabala, Neil Stockdale, Boris Lenko and Mauro Bianchi, who were unable to make any appointments for a long time. As suppliers, we also felt the effect of the slow-down when the car industry was severely affected. However, we were able to make up for this to a large extent elsewhere. Once more, our diversified position paid off. For example, our sales in the business unit of filtering technology increased significantly. We report on our pipette filters on page 10.

We put our full weight behind the spontaneous development and production of face masks, as you can see in the next double page spread. This also led to new developments for us. The skin tolerance test required during production opened new avenues in the fields of orthopaedics and medical equipment.

All in all, the coronavirus crisis has shown us that our company has a solid footing. No closures or short-time work were necessary at any point. This is partly due to our broad portfolio, and thanks to each individual member of staff. They all implemented the strict hygiene measures very methodically – at work and in their free time. That is also very important. The speedy production of our FOMASK® clearly shows how much we all pulled together and cooperated. That's something we can all be proud of!

I hope you enjoy reading this issue and stay well.

Warm regards,

Achim Raab, Managing Director



As we mentioned in our last issue, the two liquid seal manufacturing plants have now been combined to create a centre of excellence based in Aachen. Stretching over more than 2,500 square metres, it now offers everything you need for extremely sustainable sealing solutions with precise dosing: more up-to-date machinery for one and two-component silicone and PU foam seals and all pre-treatment methods – plasma, corona, flame or primer – and all the downstream logistics, including storage and dispatch. This makes our processes much more efficient. The customer

can also save logistics costs, on occasions where a product requires several processes, which were previously carried out at two different locations in Germany.

Production Manager Jürgen Paul managed the move and merger with great commitment. Everything was meticulously planned. This meant that the „restart“ worked perfectly for our staff and was almost unnoticeable for our customers. There were no delivery delays as a result of the restructuring. It all comes down to good planning.





STRONG TOGETHER

f.i.t.r. KÖPP team works with masks, KÖPP donates masks to non-profit organizations



From concept to product in record time

Fast. Flexible. Creative. That is how our customers have seen us for a long time, and the story of our FOMASK® demonstrated once more how true this is.

Let's start at the beginning: In March, Europe was in the grip of the coronavirus crisis. Protecting against infection was the order of the day, but masks covering the mouth and nose were scarce. Demand outstripped supply many times over. While everyone, from purchasers for medical facilities to health ministers, was searching desperately around the world for personal protective equipment, our patent lawyer Mario Wagner had already developed a mask for everyday use, and he was just looking for the right material to make it. That is where we came in. "Mario Wagner came to us with his prototype on Tuesday afternoon. By Thursday afternoon we had the finished product. In just two days!", explains Managing Director Achim Raab proudly. During that time we found the appropriate process, set up the punching machines, carried out fine adjustments, and put in a lot of work. During the first weekend alone, the entire team produced 250,000 masks, which had all been distributed by the end of the day on Monday. "That was incredible teamwork", enthuses Sales and Marketing Manager Axel Wynands. "All the employees, from the production and administration departments, worked in three shifts to operate the machines, to package the masks, and

address for dispatch." The demand was enormous, not just because of the extensive media coverage, but also because there were increasing calls to make masks obligatory in shops and on public transport, and in the end this happened. Now everybody needed a mask – more than one in fact. "Our mask came in response to a very urgent need. However, it was important to us not to take advantage of this emergency in the way that was witnessed many times in profiteering for low-quality personal protective equipment", stresses Sales Manager Axel Wynands. "With a unit price of less than 25 cents, we made it clear that our main aim was to help, and not to make big money from other people's distress."



Patent of the Month

Despite its rapid development and production time, the FOMASK® has already been patented, and it is a cleverly conceived, high-quality product. This was confirmed when it was named "Patent of the Month" by the RWTH Aachen University Library. The committee was impressed by its quick market launch and exemplary application of intellectual property rights. The technical solution is covered by a patent application, the product name FOMASK® is protected as a registered trade mark, and the shape is protected by a registered design.

The quality of the product is also demonstrated by the strong demand from notable institutions. "The Hesse Interior Ministry was interested, as was the federal state of North Rhine-Westphalia", explains Sales Manager Axel Wynands. So far, KÖPP has shipped around 2.5 million masks to Germany and the rest of the world.

Confirmed skin tolerance

Even the skin tolerance of the FOMASK® in accordance with DIN EN ISO 10993 has been officially confirmed by the Hohenstein Laboratory. K/EV 35 white and K/PE black have also passed the OEKO-TEX® test, and now proudly bear the STANDARD 100 by OEKO-TEX® seal. The K/EV35 white used is a closed-cell, elastic, light weight material, which provides the FOMASK® with protection, as well as comfortable air circulation for easy breathing. The mask is wipeable, even using aggressive disinfectants, although it was mainly designed for everyday single use. Many shops and pharmacies offer their customers a FOMASK® upon entry.

Use in medical devices

We were not surprised to see that the EVA we use for the FOMASK® meets strict skin tolerance requirements. However, when we had tests carried out on products from our competitors, it was striking how much better our results were. That is why we had another two products tested. Our K/PE 30 black and our K/PE 35 white also passed with flying colours, which means they are qualified for use in medical devices. As qualities in skin tones are always in demand for orthopaedics, we are currently developing a skin-tone PE and EVA, that will be available soon. As you can see, we are not running short of ideas for products that are in demand. It is good that we can also implement these ideas ourselves. This means that our customers also benefit from our creativity.

Patent des Monats Mai

04.05.2020



Alltagsgesichtsmaske aus EVA für den Einmalgebrauch

Die Coronakrise hat das öffentliche Leben im Griff. Die vorsichtige Lockerung der Sicherheitsvorkehrungen geht einher mit der Maskenpflicht, die jetzt bundesweit beim Einkaufen und Nutzen öffentlicher Verkehrsmittel gilt. Medizinische Gesichtsmasken sind Mangelware und sollten der Verwendung im Gesundheitsbereich vorbehalten bleiben. Alternativ werden auch sogenannte „Alltagsmasken“ genutzt. Insgesamt aber gilt: um hygienisch unbedenklich zu sein, müssen Gesichtsmasken nach kurzer Zeit ausgewechselt werden. Damit stellt sich die Frage, wie der Bedarf nach Gesichtsmasken gedeckt werden kann. Eine technische Lösung für dieses Problem ist die brandneu in der Aachener Region entwickelte FOMASK®: eine Einweggesichtsmaske, die in großen Mengen aus dem Kunststoff EVA hergestellt werden kann – unser Patent des Monats Mai!

Durch den außergewöhnlich zügigen Entwicklungsprozess kommt es zu einem Novum beim Patent des Monats: Die zugehörige Patentanmeldung ist so aktuell, dass sie sich in der 15monatigen Geheimhaltungsphase befindet und somit noch nicht veröffentlicht – wir können das Patent daher auch nicht verlinken. Erst im Oktober 2021 werden wir einen Blick auf die technischen Details werfen können.

Jetzt schon ist bekannt, dass die Maske aus dem Kunststoff Ethylen-Vinylacetat-Copolymer (EVA) gestanzt wird, der z. B. seit vielen Jahren für Gymnastikmatten eingesetzt wird. Die Maske ist mit ca. 2 g extrem leicht und gerade einmal rund einen Millimeter dünn. Trotzdem ist die Maske wegen des geschlossenzelligen Schaums sehr dicht und mit Kosten unter 25 ct pro Stück weitaus günstiger als vergleichbare Einwegprodukte. An einem Tag können bis zu 750.000 Stück gefertigt werden. Mit der kleinsten Verpackungseinheit von 1.600 Masken ist das Produkt für Großabnehmer wie Super- oder Baumärkte, Fitnessstudios und Arztpraxen gedacht, die sie für ihre Kundschaft/Patienten bereithalten: am Eingang anziehen, am Ausgang ausziehen. Mit diesem Prinzip wird vermieden, dass die Kunden in vermeintlicher Sicherheit mit belasteten Masken doch Viren in die Läden tragen. Die Entsorgung der Masken erfolgt durch rückstandslose Verbrennung.

Die Idee zu der Maske hatte der Aachener Patentanwalt Mario Wagner. Die Umsetzung mit der ebenfalls aus Aachen

Millionen Masken made in Aachen

Der Kautschukspezialist Köpp und ein Patentanwalt erfinden neuen Mundschutz für den Alltagseinsatz



„Mit Abstand die besten Schüler“

Aktionen an der Sekundarschule Nordfeld zum Wiederbeginn des Unterrichts für die Abschlussklassen



CELLULAR RUBBER WITH A HUGE RANGE OF PROPERTIES

Our product range continues to grow

As we mentioned on page 5, we are currently developing skin-tone PE and EVA, especially for use in orthopaedics. This means we can offer our customers an alternative that is cheaper and available faster than previous by dealing with material other suppliers. Of course, the quality remains as good – if not better. We are also expanding our cellular rubber range: which now includes high temperature-resistant, halogen-free, and firm EPDM grades and soon an oil and petrol-resistant NBR.

High temperature-resistant EPDM

In addition to the recently introduced EPDM-SBR (blend), heavy EPDM-S HT, and light EPDM-L HT, KÖPP is now introducing super-soft EPDM-SUW HT. This softer material is almost as temperature-resistant, up to max. 145°C, so it is ideal for applications in engine compartments or in the field of solar energy.

Halogen-free EPDM

The construction industry has particularly strict fire safety regulations, and rightly so. Installing self-extinguishing materials that do not form poisonous gases in reaction to extinguishing water is an important component of fire safety. In addition to the halogen-free polyethylene K/PE 29 HFFR, the cellular rubber grades EPDM-L HFFR and EPDM-S HFFR have now also been tested in accordance with the UL94 fire test standard. Here too, both grades achieved good values.

Media-resistant NBR

NBR is the material of choice when it comes to resistance to aggressive media such as oil and petrol. For this reason it is commonly used in agricultural engineering, especially for seals, that also need to have a high capacity to absorb impacts and shocks.



This property makes NBR particularly popular for weight classes S and L and for anti-stress mats. We will also present this brand new type of elastomer to you shortly.

Firmer EPDM

Detecting customer needs, determining possibilities, and serving markets are part of our business. This makes our sector so dynamic and ensures that we keep bringing a wide range of different versions of qualities to market. Would you like a firmer version of our EPDM? OK. We can now offer you EPDM-W-F and EPDM-S-F. A light version (110kg/m³, 40 Shore 00) and a heavy version (240 kg/m³, 65 Shore 00) – both have an extremely high resistance rating. “We will sell it across the sector for all types of seals”, predicts Sales Manager Axel Wynands.

Doing more NEW SPLITTING MACHINES

The demand for sheet products has grown steadily over recent years. We have recently purchased new loop splitting machines, making a total of 4 in the group, which can be used for processing sheets and rolls of material, but even these were no longer enough to meet the demand – at least not within timeframes that were acceptable. It is important for us to keep our lead times much shorter than those of our competitors – this is important for our customers too, as we have often experienced.

The new splitting machine – a top-quality machine from Fecken-Kirfel – has a large table that can convert several blocks at the same time. It is currently being set up at our factory in Romania therefore operational shortly. The sooner the better – it has a lot of work waiting for it!



<div><div><div><div>HERSTELLER KOEPPCell® MADE BY KÖPP</div><div>VERARBEITER EPDM CR NR</div></div><div>Handler</div></div></div> <div>Zellkautschuk Cellular rubber</div> <div>KOEPPCell®</div>			Qualität / Handelsname Quality / Trade-Name		Farbe / Colour		Rohdichte / Density		Druckspannung / Compression deflection		Druckverformungsrest nach 24 Std. / Compression set after 24h		Wasseraufnahme / Water absorption		Bruchdehnung / Elongation at break		Zugfestigkeit / Tensile strength		Linearer Schwind / Linear shrinkage		Gebrauchstemperatur / Application temperature		Shorehärte / Shore hardness		Ozonbeständigkeit (Rissbildstufe) / Ozone resistance (Resistance to cracking)		ASTM Klassifizierung / ASTM Classification		FMVSS Klassifizierung / FMVSS Classification		Brandverhalten / Fire Behaviour		REACH Konformität / REACH Compliance		RoHS Konformität / RoHS Compliance		Blockgröße / Block size	
EPDM	EPDM-SUW		EPDM-SUW		80 ± 15 kg/m³	(25%) 30 ± 15 kPa (50%) 100 ± 25 kPa	23°C, 50%: ≤ 30% 40°C, 50%: ≤ 50%	≤ 5%	≥ 125%	≥ 150 kPa	≤ 5%	-40°C +105°C +120°C	20 ± 6 Shore 00	[0]	2A1 A2 B3 C2 F1 M P	pass 5 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 55 mm 78 3/4" x 39 3/8" x 2 1/8"	2x																		
	EPDM-W		EPDM-W		100 ± 20 kg/m³	(25%) 35 ± 15 kPa (50%) 95 ± 25 kPa	23°C, 50%: ≤ 20% 40°C, 50%: ≤ 40%	≤ 5%	≥ 125%	≥ 200 kPa	≤ 5%	-40°C +105°C +120°C	25 ± 6 Shore 00	[0]	2A1 A2 B3 C2 F1 M P	pass 4 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 55 mm 78 3/4" x 39 3/8" x 2 1/8"	2x																		
	EPDM-L		EPDM-L		130 ± 20 kg/m³	(25%) 35 ± 15 kPa (50%) 120 ± 40 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 50%	≤ 5%	≥ 150%	≥ 350 kPa	≤ 5%	-40°C +100°C +120°C	35 ± 6 Shore 00	[0]	2A2 A2 B2 C2 F1 M P	pass 3 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50/70 mm 78 3/4" x 39 3/8" x 2/2 3/4"	2x																		
	EPDM-S		EPDM-S		175 ± 25 kg/m³	(25%) 50 ± 15 kPa (50%) 120 ± 40 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 50%	≤ 5%	≥ 150%	≥ 400 kPa	≤ 5%	-50°C +110°C +120°C	40 ± 8 Shore 00	[0]	2A2 A2 B2 C2 F1 M P	pass 3 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
	firm fest	EPDM-W-F	EPDM-W-F		110 ± 20 kg/m³	(25%) 50 ± 15 kPa (50%) 130 ± 30 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 50%	≤ 4%	≥ 100%	≥ 300 kPa	≤ 5%	-40°C +105°C +120°C	40 ± 5 Shore 00	[0]	2A2 A2 B3 C2 F1 M P	pass 4 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 70 mm 78 3/4" x 39 3/8" x 2 3/4"	2x																		
		EPDM-S-F	EPDM-S-F		240 ± 20 kg/m³	(25%) 120 ± 30 kPa (50%) 300 ± 40 kPa	23°C, 50%: ≤ 15% 40°C, 50%: ≤ 30%	≤ 3%	≥ 110%	≥ 650 kPa	≤ 3%	-50°C +110°C +120°C	65 ± 5 Shore 00	[0]	2A4 A2 B2 C2 F1 M P	pass 2 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
	High temperature resistant Hochtempera- turbeständig	EPDM-SUW-HT	EPDM-SUW-HT		80 ± 15 kg/m³	(25%) 30 ± 15 kPa (50%) 100 ± 25 kPa	23°C, 50%: ≤ 40% 40°C, 50%: ≤ 70%	≤ 6%	≥ 125%	≥ 150 kPa	≤ 5%	-50°C +130°C +145°C	20 ± 6 Shore 00	[0]	2A1 A2 B3 C2 F1 M P	pass 5 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 55 mm 78 3/4" x 39 3/8" x 2 1/8"	2x																		
		EPDM-L-HT	EPDM-L-HT		130 ± 20 kg/m³	(25%) 35 ± 15 kPa (50%) 120 ± 40 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 50%	≤ 5%	≥ 150%	≥ 350 kPa	≤ 5%	-50°C +135°C +150°C	35 ± 6 Shore 00	[0]	2A2 A2 B2 C2 F1 M P	pass 3 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
		EPDM-S-HT	EPDM-S-HT		175 ± 25 kg/m³	(25%) 50 ± 15 kPa (50%) 120 ± 40 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 50%	≤ 5%	≥ 200%	≥ 400 kPa	≤ 5%	-50°C +140°C +150°C	40 ± 8 Shore 00	[0]	2A2 A2 B2 C2 F1 M P	pass 3 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
	sulfur free schwefelfrei	EPDM-SUW/Perox	EPDM-SUW/Perox		80 ± 15 kg/m³	(25%) 30 ± 15 kPa (50%) 100 ± 25 kPa	23°C, 50%: ≤ 30% 40°C, 50%: ≤ 50%	≤ 5%	≥ 150%	≥ 200 kPa	≤ 5%	-40°C +105°C +120°C	20 ± 6 Shore 00	[0]	2A1 A2 B3 C2 F1 M P	pass 5 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 55 mm 78 3/4" x 39 3/8" x 2 1/8"	2x																		
		EPDM-W/Perox	EPDM-W/Perox		100 ± 20 kg/m³	(25%) 35 ± 15 kPa (50%) 95 ± 25 kPa	23°C, 50%: ≤ 20% 40°C, 50%: ≤ 40%	≤ 5%	≥ 150%	≥ 250 kPa	≤ 5%	-40°C +105°C +120°C	25 ± 6 Shore 00	[0]	2A1 A2 B3 C2 F1 M P	pass 5 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
		EPDM-L/Perox	EPDM-L/Perox		120 ± 20 kg/m³	(25%) 35 ± 15 kPa (50%) 120 ± 40 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 50%	≤ 5%	≥ 200%	≥ 300 kPa	≤ 5%	-40°C +100°C +120°C	35 ± 6 Shore 00	[0]	2A1/2 A2 B2 C2 F1 M P	pass 4 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
		EPDM-S/Perox	EPDM-S/Perox		165 ± 20 kg/m³	(25%) 50 ± 15 kPa (50%) 120 ± 40 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 50%	≤ 5%	≥ 200%	≥ 400 kPa	≤ 5%	-50°C +110°C +120°C	40 ± 8 Shore 00	[0]	2A2 A2 B2 C2 F1 M P	pass 3 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
	halogen free halogenfrei	EPDM-L-HFFR	EPDM-L-HFFR		130 ± 20 kg/m³	(25%) 35 ± 15 kPa (50%) 120 ± 40 kPa	23°C, 50%: ≤ 15% 40°C, 50%: ≤ 30%	≤ 10%	≥ 100%	≥ 200 kPa	≤ 5%	-40°C +100°C +120°C	35 ± 6 Shore 00	[0]	2A1/2 A2 B2 C2 F1 M P	selbstverlöschend self-extinguishing	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
		EPDM-S-HFFR	EPDM-S-HFFR		175 ± 25 kg/m³	(25%) 50 ± 15 kPa (50%) 120 ± 40 kPa	23°C, 50%: ≤ 10% 40°C, 50%: ≤ 20%	≤ 10%	≥ 100%	≥ 200 kPa	≤ 5%	-50°C +110°C +120°C	40 ± 8 Shore 00	[0]	2A2 A2 B2 C2 F1 M P	selbstverlöschend self-extinguishing	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
	blend blend	EPDM-PE	EPDM-PE		80 ± 20 kg/m³	(25%) 35 ± 15 kPa (50%) 105 ± 25 kPa	23°C, 50%: ≤ 50% 40°C, 50%: ≤ 80%	≤ 5%	≥ 200%	≥ 200 kPa	≤ 5%	-30°C +100°C +105°C	40 ± 6 Shore 00	[0]	2A1 A2 B3 C1 F1	pass 6 mm	ja/ yes	ja/ yes	L: 2.100 x B: 1.200 x H: 110 mm 84 1/2" x 47 1/4" x 4 1/2"	2x																		
EPDM/SBR-S		EPDM/SBR-S		175 ± 25 kg/m³	(25%) 70 ± 20 kPa (50%) 175 ± 45 kPa	23 °C, 50%: ≤ 50% 40°C, 50%: ≤ 75%	≤ 3%	≥ 80%	≥ 400 kPa	≤ 5%	-40°C +90°C +110°C	60 ± 10 Shore 00	[0]	2A3/4 A2 B2	pass 2 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																			
EPDM-CR-L		EPDM-CR-L		120 ± 20 kg/m³	(25%) 40 ± 10 kPa (50%) 120 ± 40 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 40%	≤ 5%	≥ 130%	≥ 250 kPa	≤ 5%	-40°C +100°C +120°C	35 ± 6 Shore 00	[0]	2A1/2 A2 B2 C2 F1 M P	pass 2,5 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 70 mm 78 3/4" x 39 3/8" x 2 3/4"	2x																			
EPDM-CR-S		EPDM-CR-S		175 ± 25 kg/m³	(25%) 45 ± 15 kPa (50%) 120 ± 40 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 40%	≤ 5%	≥ 130%	≥ 400 kPa	≤ 5%	-40°C +100°C +120°C	40 ± 6 Shore 00	[0]	2A1/2 A2 B2 C2 F1 M P	pass 2,5 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																			
semi-closed gemischtzellig	EPDM-SC-W	EPDM-SC-W		100 ± 15 kg/m³	(25%) 2 ± 1 kPa (50%) 3,5 ± 1,5 kPa Vorkraft/pre force 0,2 N	23°C, 50%: ≤ 3% 40°C, 50%: ≤ 5%	x*	≥ 150%	≥ 100 kPa	≤ 5%	-40°C +100°C +120°C	x*	[0]	2A0 A2 B2 C2 F1 M P	pass 5 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 55 mm 78 3/4" x 39 3/8" x 2 1/8"	1x																			
NR	ZK/NR-L mittel		ZK/NR-L medium		160 ± 25 kg/m³	(25%) 50 ± 15 kPa (50%) 130 ± 30 kPa	23°C, 50%: ≤ 20% 40°C, 50%: ≤ 45%	≤ 5%	≥ 150%	≥ 450 kPa	≤ 6%	-30°C +70°C +90°C	45 ± 8 Shore 00	[0]	2 A3 B2 P	pass 7 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
	ZK/NR-S fest		ZK/NR-S firm		190 ± 20 kg/m³	(25%) 75 ± 15 kPa (50%) 140 ± 20 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 65%	≤ 5%	≥ 160%	≥ 600 kPa	≤ 6%	-30°C +80°C +90°C	48 ± 7 Shore 00	[0]	2 A3/4 B2 P	pass 6 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
	ZK/NR-S extrafest		ZK/NR-S extra firm		240 ± 20 kg/m³	(25%) 80 ± 20 kPa (50%) 195 ± 25 kPa	23°C, 50%: ≤ 15% 40°C, 50%: ≤ 55%	≤ 5%	≥ 150%	≥ 800 kPa	≤ 10%	-30°C +80°C +90°C	62 ± 5 Shore 00	[0]	2 A3/4 B2 P	pass 5 mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
CR	ZK/CR-L		ZK/CR-L		160 ± 20 kg/m³	(25%) 50 ± 15 kPa (50%) 125 ± 25 kPa	23°C, 50%: ≤ 40% 40°C, 50%: ≤ 65%	≤ 5%	≥ 170%	≥ 500 kPa	≤ 10%	-30°C +110°C +120°C	40 ± 6 Shore 00	[0]	2 C2 A1 B2 C E1	selbstverlöschend self-extinguishing ab/at 2mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
	ZK/CR-S fest		ZK/CR-S firm		200 ± 30 kg/m³	(25%) 80 ± 15 kPa (50%) 145 ± 25 kPa	23°C, 50%: ≤ 30% 40°C, 50%: ≤ 60%	≤ 5%	≥ 200%	≥ 600 kPa	≤ 10%	-40°C +110°C +120°C	50 ± 6 Shore 00	[0]	2 C3 A1 B3 C E1 P	selbstverlöschend self-extinguishing ab/at 2mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
	sulfur free schwefelfrei	CR-M	CR-M		130 ± 20 kg/m³	(25%) 55 ± 15 kPa (50%) 140 ± 20 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 55%	≤ 5%	≥ 100%	≥ 600 kPa	≤ 6%	-30°C +100°C +115°C	50 ± 5 Shore 00	[0]	2 C2 A1 B2 E1 C	selbstverlöschend self-extinguishing ab/at 2mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
		CR-F fest	CR-F firm		150 ± 20 kg/m³	(25%) 80 ± 20 kPa (50%) 180 ± 25 kPa	23°C, 50%: ≤ 25% 40°C, 50%: ≤ 55%	≤ 5%	≥ 85%	≥ 600 kPa	≤ 6%	-30°C +100°C +115°C	55 ± 5 Shore 00	[0]	2 C3 A1 B3 E1 P	selbstverlöschend self-extinguishing ab/at 2mm	ja/ yes	ja/ yes	L: 2.000 x B: 1.000 x H: 50 mm 78 3/4" x 39 3/8" x 2"	2x																		
				ISO 845	ASTM D-1056	ASTM D-1056	ASTM D-1056	ISO 1798	ISO 1798	Ford-WSK-M2D419-A	ohne Norm	ISO 868	ISO 1431-1	ASTM Code	FMVSS 302	Regulation (EG) No 1907/2006	Guideline 2011/65/ EU																					

x*= nicht messbar / not measurable



Pipette filters

A SMALL PRODUCT WITH A IMPORTANT ROLE

Do you remember the last issue of insight.? We reported that we had opened up new markets with pipette filters for medical technology. Even the greatest optimists did not expect that these pipette filters would be in such high demand in a very short time. Due to the course of the Corona pandemic, these small filters played an important role. Tests for Covid-19 are the solution to combating the spread of the corona virus worldwide. Millions of pipette tips are used every day in robotic analysers. A test for Covid-19 is impossible without a filter in

these pipette tips, as the devices would then be contaminated and the test results would be worthless. These filters therefore play a key role in fighting Covid-19.

In any case, the fact is that this small product is currently generating a substantial increase in sales in the traditional KÖPP Filtertechnik segment.

And once again we offer you the right product at the right time, as always in excellent quality.



Pipette filters



FILTERING TECHNOLOGY

- ● ● **FILTER MATERIAL**
 - GURON®-moulded parts
 - VYON®-filter material
- ● ● **FILTER EQUIPMENT**
- ● ● **SILENCERS**
- ● ● **SPARE PARTS**

APPLICATIONS FOR:

- ▶ Filtration
- ▶ Ventilation
- ▶ Wicking
- ▶ Media carriers
- ▶ Diffusion
- ▶ Absorption
- ▶ Sound insulation

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ERP SYSTEM UPGRADE



“This will further speed up our processes and improve the quality of our services.”

At KÖPP, being state-of-the-art is not just important in the laboratory or the production facility. Communication and IT also help determine the company's success. We have recently changed providers to get faster Internet, updated our entire telephone system, and we will soon be installing the MS® Navision Update and tailoring it to the needs of the company and its staff. We have been using a fully integrated version of MS® Dynamics NAV since 2010, which is now no longer supported. The complicated integration of the new ERP system is being managed by IT Manager André-Johannes Stiebig. “The new system gives us more flexibility

to design our own work processes”, says Stiebig, explaining the benefits. Making use of this design flexibility requires a high level of IT expertise. Luckily KÖPP can count on André-Johannes Stiebig, a professional who can meticulously program the process sequences. This applies to all departments: Human resources , procurement, production, materials management, marketing, and accounts. From now on, all staff members can benefit from clearer, intuitive tools with a carefully adjusted structure. “This further speeds up our processes and improves the quality of our services”, explains Managing Director Achim Raab.



JOIN IN & WIN

Design a mask – win a fitness mat

Purse, shopping list, shopping basket, mobile phone, car keys... that would have been a typical checklist for a shopping trip last year. That has changed: Purse, face mask, shopping list... hardly anyone leaves the house without a mask now. They are now available in a wide range of shapes, colours and patterns. People are thinking: If I have to wear something like that, then it should look good, it should be funny or send out a message.

When our FOMASK® came onto the market, lots of users quickly noticed how the free space leaves scope to personalise them. Kissing

lips are a particularly popular motif. We have published a few nice examples on our homepage. We then had the idea of making this into an exciting competition.

We hope that the FOMASK® included with this edition will encourage you to get active. Give your creativity free rein, then send a photo of your work of art to us at preisbrecher@koepp.de. You might even win one of our fitness mats made of KOEPPCell® K/EV 45. Then you can give yourself free rein to do some exercise on it. How about it? We look forward to your submissions, to be received no later than September 13th, 2020.



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in foam