

SUPPORTING THE FIGHT IN DEFEATING COVID-19



DEFEATING COVID-19

As the world comes together to fight Coronavirus, the Healthcare sector is being challenged to quickly provide a myriad of products to help us succeed. Indeed, manufacturers who typically operate outside the Healthcare industry are also adapting their production efforts to join the fight. ALBIS is also playing its part with the supply of products for the manufacture of the diverse range of equipment needed. Our huge portfolio of polymer products is matched only by the deep understanding of our Application Development Engineers and specialist Business Development Managers for the Healthcare sector.

Whether we are talking about Personal Protective Equipment to keep our frontline Healthcare workforce safe as they carry out their vital roles in caring for patients or essential medical equipment needed to support in caring for patients in hospital, there is a great urgency to increase production of supplies. To support our customers in selecting the right product for the right application we have created this easy-to-follow Product Selector. Please get in touch with your regional contacts for more advice – we are here to support you in our fight to defeat COVID-19!

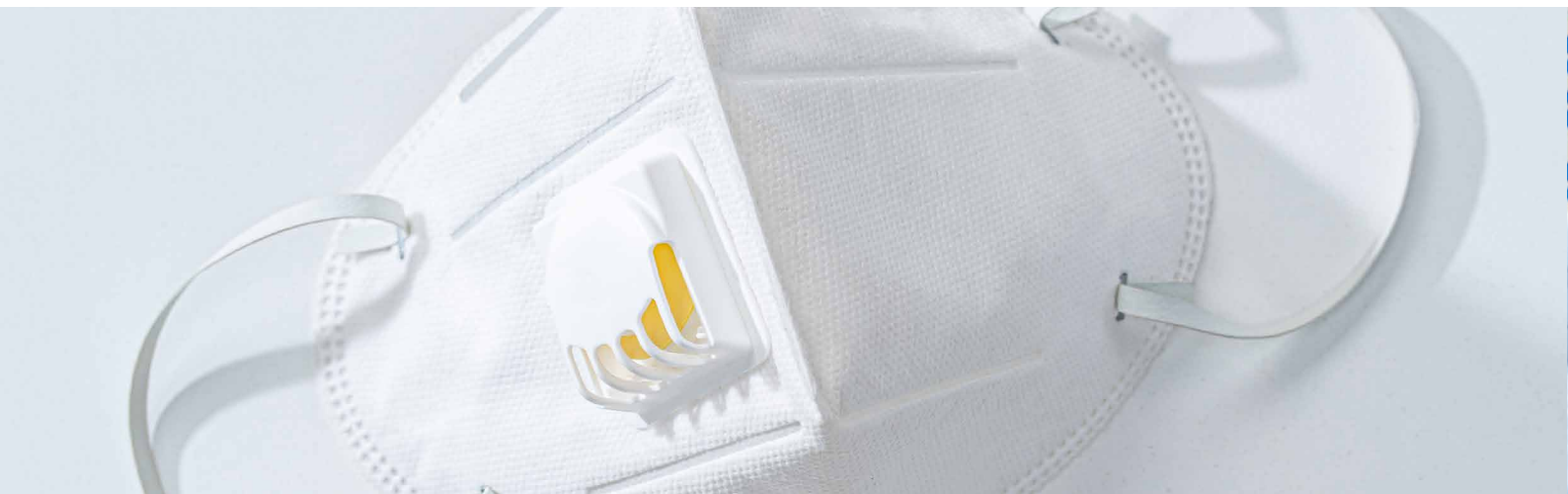


RESPIRATORS AND VENTILATORS

Respiratory devices are systems consisting of multiple functional parts, such as housings, tubings, fittings and sensors. ALBIS offers a broad variety of medical grade polymers¹ fulfilling the requested technical and regulatory needs.

Respirators

Typical applications	Brand	Polymer Type
Mask parts, airflow management	Purell™	PP, LD-PE, HD-PE
Containers, connectors	Terlux® HD	MABS
	Zylar®	MBS
Adapters, connectors, filter parts	NAS®	SMMA
Filter housings, rigid luers, containers	Styrolux®	SBC
Tubes, soft parts, sealings	Purell™	PB-1, PP Random
	Styroflex®	TPE-S
Respiratory mask parts, tubes	Texin®	TPU
Face mask parts, sealings	Evoprene®	TPS
Connectors, stopcocks	Tritan™	Copolyester



Ventilators

Typical applications	Brand	Polymer Type
Housings, covers, functional parts	Makrolon®	Polycarbonate
	Bayblend®	PC + ABS
	Makroblend®	PC + PBT
	Tritan™	Copolyester
	Novodur® HD	ABS
	Ultraform® PRO AT	POM
Airflow management, device components, engineering parts	Tedur®	PPS
	KetaSpire®	PEEK
	Ultrason®	Polysulphones

PERSONAL PROTECTIVE EQUIPMENT

Materials supplied by ALBIS can be used for a wide variety of protective applications such as textile community masks, ventilated masks and professional medical masks.



Typical applications	Brand	Polymer Type
Frames, holders, clips, structural parts	Purell™	PP
	CELLIDOR®	CP
	Terluran®	ABS
	ALTECH®	PP
Sealings, soft parts of masks, straps	ALCOM® MED	PP compound
	Texin®/ Desmopan®	TPU
	Evoprene®	TPS
	ALFATER®	TPV
Shields, visors	Tritan™	Copolyester
	Makrolon®	Polycarbonate
Non-woven masks	Moplen™	PP Homo

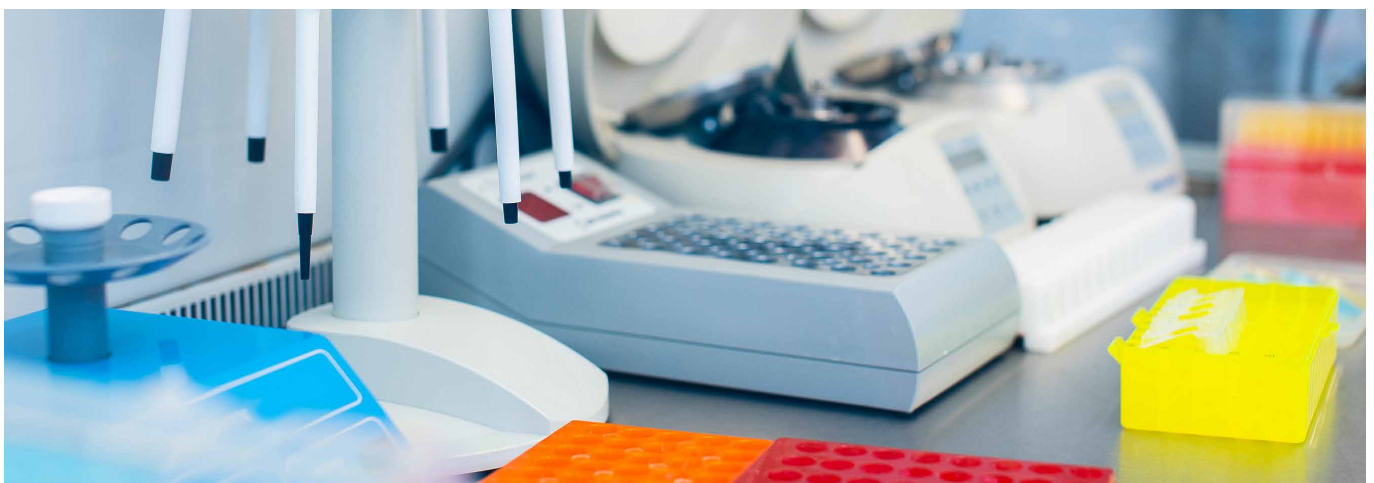


LABORATORY SUPPLY AND DIAGNOSTIC EQUIPMENT

The early and accurate detection of an infection is a vital part of the world's fight against the Corona pandemic. Purity of the materials used is just one of the key aspects in selecting adequate materials for labware. The ALBIS offering comprises medical grade plastics¹ ranging from polyolefins and styrenics for disposable supply to various engineering plastics used for automated analysis systems.



Typical applications	Brand	Polymer Type
PCR plates, diagnostic devices	Purell™	PP
Test cartridges	Makrolon®	PC
Petri dishes, disposables	Styrolution PS	GPPS
Diagnostic equipment	ALCOM® MED	PS-HI Compound
Housings	Novodur® HD	ABS
Filter housings	Styrolux®	SBC
Diagnostic test kits, cuvettes	Luran® HD	SAN
Diagnostic devices	Terluran®	ABS





ALBIS HYGIENIC SOLUTIONS

ALBIS HYGIENIC MATERIAL offers permanent antimicrobial protection of plastic surfaces, using the Biomaster technology. Our product range contains solutions for almost all common polymers. They are available either as ALPERFORM® HM masterbatches or as ALCOM® HM ready-to-use compounds. While this technology is broadly used and tested against bacteria, such as E. Coli and S. Aureus, recent tests have shown an efficacy against the Norovirus. These results do suggest that this technology could also be effective against the COVID-19 virus. Please follow this link to our partners at Addmaster supplying the Biomaster technology which we are using, and get a thrilling insight: www.addmaster.co.uk

Hygienic Protection



Typical applications	Brand	Polymer Type
Door handles	ALPERFORM® HM or ALCOM® HM	Masterbatch or Compunds based on most polymers
Personal Protective Equipment		
Medical devices		
Multi-use packaging		
Washroom articles		
Hand dryers		

According to WHO recommendations frequent hand washing is one of the key elements for protecting against an infection with the Corona virus. ALBIS offers state of the art materials for packing of hand soaps and disinfectants as well as for dispensers.

Soap and Disinfection Dispensers (Hydroalcoholic Solution)



Typical applications	Brand	Polymer Type
Soap Dispensers	Terluran®	ABS
	Durastar®	Copolyester
	Sipolprene®	TPC
Disinfectant Dispensers*	Purell™	PE-LD, PE-HD
	Eastar®	Copolyester
Dispenser Valves / Pumps*	Durastar®	Copolyester
	Ultraform®	POM
	Ultradur®	PBT

ALPERFORM® HYGIENIC MATERIAL

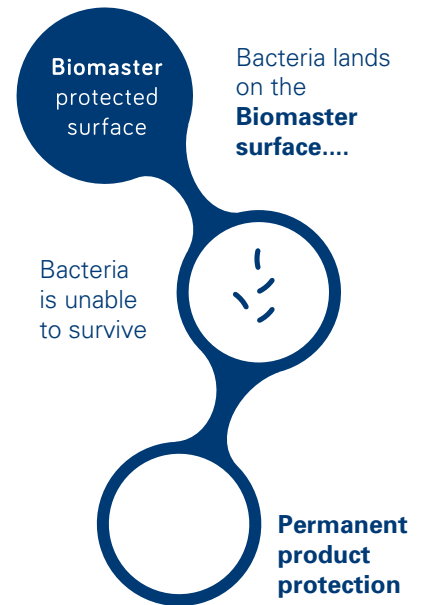
Hygienic Protection and Antibacterial Performance

With the product series HYGIENIC MATERIAL Biomaster Protected, ALBIS offers Masterbatches and Compounds based on silver ions. These products provide antibacterial protection of plastic surfaces for the entire life cycle of your product.

Efficacy is especially dedicated to single-cell germs. An antiviral effect on plastic surfaces is not yet proven, but can likely be expected to a certain extent. In any case HYGIENIC MATERIAL helps reducing the spread of additional microbes in sensitive environments, where more vulnerable people are living or being treated.

Our products are based on the Biomaster additives from Addmaster, England. The high efficacy after a contact time of only 15 minutes is outstanding.

According to Biocide Products Regulation EC 528/2012, silver ions can be used as biocides. The required registration is filed. Our Compounds will be declared as "Treated Articles". For the use in the US, the active ingredients are registered with the EPA.



HYGIENIC Material: advantages at a glance

- Antibacterial protection in steps Log 3 and Log 4 possible
- Effective from 1 % Masterbatch dosage
- Transparent applications possible
- Coloration practically without limitation – Combibatches available upon request
- Test of antibacterial properties according to ISO 22196:2011, provided via a certified laboratory
- Available as Masterbatch and as Compound

The following **ALPERFORM®** Masterbatches – Biomaster Protected are available as standards:

Carrier	Product	Use
PE	ALPERFORM® PE HM AT 596	PE, PP, TPE
SAN	ALPERFORM® SAN HM AT 673	ABS, SAN, PS, PC+ABS
PA	ALPERFORM® PA HM AT 774	PA6, PA6.6
PC	ALPERFORM® PC HM AT 1000	PC, PC+ABS
TPU	ALPERFORM® TPU HM AT 119	TPU

The use of further carrier polymers is possible.

The following **ALCOM®** Compounds – Biomaster Protected are available as standards:

Polymer	Product
ABS	ALCOM® HM ABS 1000 AG 14077 NC001-00
PC	ALCOM® HM PC 1000 AG 14078 NC001-00
PC+ABS	ALCOM® HM PC+ABS 1000 AG 16152 NC001-00
PP	ALCOM® HM PP 1000 AG 14079 NC001-00

Colored solutions can be developed upon request.

¹ According to VDI guideline 2017 Medical Grade Plastics

The information contained in this publication is based on our current knowledge and experience. However, due to the large number of factors that can influence our products when they are processed and used, it does not exempt processors from carrying out their own investigations and tests. Legally binding assurances of specific properties or of suitability for a specific purpose cannot be derived from our information. The recipient of our products is responsible for observing any applicable industry laws as well as the existing laws and regulations.

For detailed information on our material and service options please contact your ALBIS sales representative or address to: healthcare@albis.com, Phone +49 40 78105-0