

Allplast Safety Products

When safety comes first

Face Protection Visor

Allplast BV (NL) is specialised in the design and production of innovative products for personal protection. In order to combat against the corona (COVID-19) virus, we have developed a new type of protection mask (re-useable).

This face mask presents a physical barrier that will protect against splash, spray of fluid and infected droplets. The face mask should be used in any situation when a distance of 1,5 meter between two or more persons cannot be guaranteed, so that a very contagious viral infection will be minimized.

Face Protection - Medical Visor

Material	Transparent UV Protected Polycarbonate
Options	Anti-Scratch, Anti-Static, Anti-Condense Coating
Thickness	0.75 mm
Weight	200gr.
Colour	Printed in desired color/pattern/logo's etc. possible (tailor made per >500 Pcs.)
Mark	EN166:2001

Although Allplast bv believe that the suggestion regarding the possible uses of the presented face mask as well as the other statements in this leaflet/product sheet are accurate and reliable, they are presented without guarantee or responsibility of any kind and are not representation of warranties of us, either express or implied. Information provided herein does not relieve the user from the responsibility of carrying out it's own tests and experiments and the user assumes all risks and liability (Including but not limited to, risks relating to results, patent infringement and health, safety and the environment) for the results obtained by the use of the products and the suggestion contained herein.

The following should be taken in consideration:

Our Face Protection masks can be used for all kind of applications, where it is difficult to keep the (social) distance of 1,5 meter, to prevent further infection of the virus. The face mask has no (bacteriological) air filter. The Face Protection Mask has been produced in the EU..

Medical purposes:

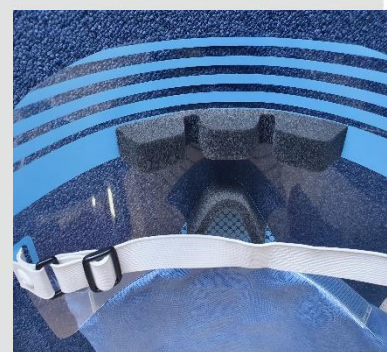
For medical applications such as dentists, surgeons and/or nurses, medical staff, elderly care, the face mask should be used in combination with an air mask.

Law Enforcement (Police & Defence)

The Face protection Mask can be used by Police officers, Customs staff members and/or Legal services when arresting or investigating suspects or prisoners.

Public domain (Retail & Logistics)

For those jobs where hygiene and personal protection/safety is important, like: taxi drivers, (pizza)couriers, store personnel/stock clerks and other jobs where it's critical to maintain the social distance of 1,5 meter.



More information?

We would like to inform you about our services. Please call us for more information or an offer regarding your specific needs!

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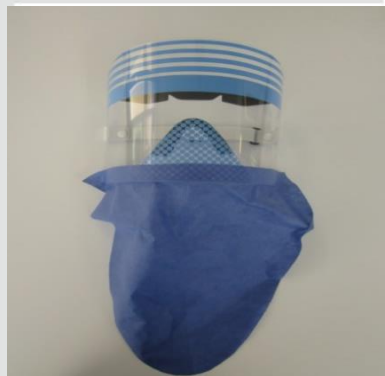
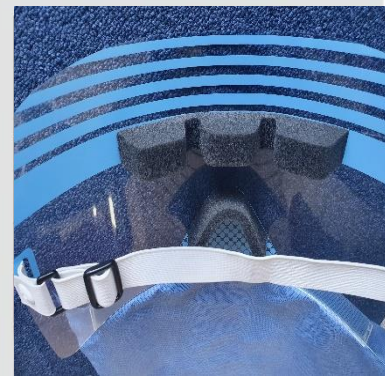
Product Specifications FACE PROTECTION MASK (Page: II)

Optical Visor

Our transparent polycarbonate (PC) is a virtually unbreakable mask for the toughest environments. Our optical PC visor has high clarity and good optical performance for applications where good visibility is important. It also has excellent UV protection and temperature performance which gives good fire properties, the material is even self-extinguishing. Our visor has half the weight of glass and 10x more impact resistance than acrylic (PMMA). Our visor complies with the EN 166:2001 standard, which requires standards for eye protection against impact from particles or debris and spray. The visor is 'non-breakable'.

The Face protection Mask, may be cleaned by using a clean soft sponge and washing with lukewarm water containing a mild soap or a slightly acidic, neutral or slightly alkaline detergent. Then rinse thoroughly with clean water and dry with chamois leather or a moist sponge. A subsequent anti-static treatment is recommended.

- Suitable cleaning solvents at room temperature are: water, white spirit, hexane, heptane, ethyl alcohol, butyl alcohol, isopropyl alcohol (also known as IPA or Isopropanol).
- Disinfection of the visor can be performed using >60% isopropyl alcohol (IPA), ethanol, or any other antibacterial or antiviral cleaning agent suitable for PC, sprayed or applied on a soft cloth, preferably followed by a thorough wash with clean water and rinse as described above.
- Treatment with an anti-static agent keeps the sheet free from static charge and dust over prolonged periods. There are some commercially available products which act simultaneously as cleaning agent and anti-static agent, e.g. Burnus Kunststoff-Reiniger + Pfleger.



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Product Specifications FACE PROTECTION MASK (Page: III)

Chin/neck cover

Nonwoven PP medical spun bond laminated with a hot melt film; weight: 55 g/sqm. The applied laminate is one side absorbing and one side hydrophobic (non-absorbing).



Internal finish soft foam

For the optimal comfort of wearing our Face Protection Mask, a soft PE foam has been used. This foam meets all standards with regard to compressibility (ISO 2439B) and elasticity (ASTMD D3574 H).

Head band: adjustable textile

In order to put the Face Protection Mask on, a very sound elastic band (width: 3,0cm) has been used/attached to wear the mask comfortable.



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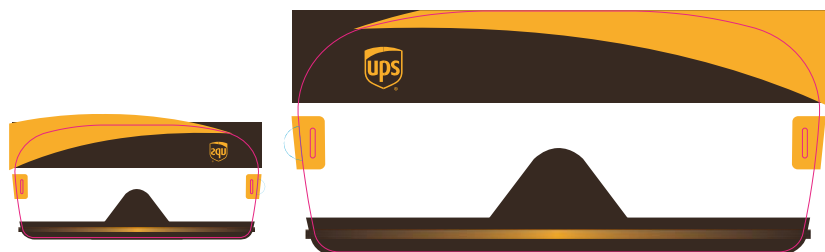
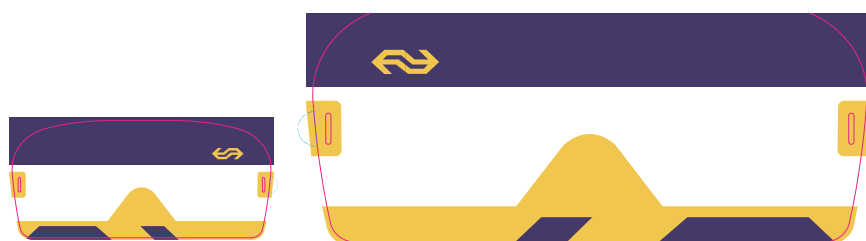
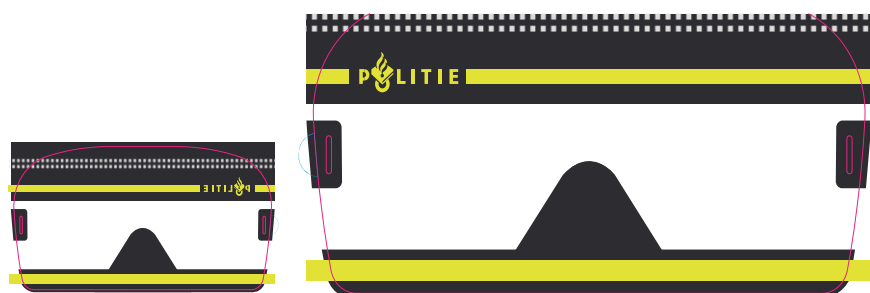
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Tailor made design FACE PROTECTION MASK (Page: IV)

Examples: Law Enforcement – Public Transportation - Logistics



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MAKROCLEAR® FA

MAKROCLEAR® FA is transparent polycarbonate sheet. The product has high clarity and surface quality ideal to replace Glass in food contact applications. The product is virtually unbreakable with extremely high impact resistance and offers high temperature performance too.

MAKROCLEAR® FA provides designers with possibilities to use transparent polycarbonate sheets in applications where high clarity and optical performance is required. The consistent high quality demands from the market helps to improve machining, screen printability and thermoformability

MAKROCLEAR® FA is an extruded polycarbonate sheet made from a special resin complying with food contact regulations governed by the US Food and Drug Administration and EC Directive. Sawing and forming can be performed by using the same methods as for standard polycarbonate.

MAKROCLEAR® FA BENEFITS:

- Food approval
- Resistance to high temperature
- Half the weight of glass
- High impact strength
- Easy to thermoform or fabricate

APPLICATION AREAS:

MAKROCLEAR® FA is the right choice for food packaging and applications where the product will come in direct contact with food, such as displays and boxes.

DELIVERY PROGRAM:

Standard size: 2050 x 3050 mm

Thickness range: 0,75 – 6 mm

Colour: Clear

Embossing: ICE™, TEX™, Grain 35, ANTI-REFLEX™

Special sizes and thicknesses on request

MAKROCLEAR® FA TECHNICAL SPECIFICATIONS

Property	Value	Unit	Standard
Physical properties			
Density	1,2	g/cm ³	ISO 1183
Refractive index (20 °C)	1,586		ISO 489
Moisture absorption 24 hours, 23 °C, 50% RH	0,15	%	ISO 62
Mechanical properties			
Tensile strength at yield (at break)	60 (70)	N/mm ²	ISO 527
Elongation at yield (at break)	6 (110)	%	ISO 527
Elastic modulus	>2300	N/mm ²	ISO 527
Flexural modulus	>2300	N/mm ²	ISO 178
Charpy unnotched impact strength -40 °C	NB	kJ/m ²	ISO 179/1eU
Charpy notched impact strength -30 °C	11	kJ/m ²	ISO 179/1eA
Izod notched impact strength +23 °C	65	kJ/m ²	ISO 180/1A
Izod notched impact strength -30 °C	10	kJ/m ²	ISO 180/1A
Thermal properties			
Linear coefficient of thermal expansion (20-70 °C)	65x10 ⁻⁶	K ⁻¹	ISO 11359-2
Heat deflection temperature, HDT A (1,80 N/mm ²)	132	°C	ISO 75
Heat deflection temperature, HDT B (0,45 N/mm ²)	142	°C	ISO 75
Vicat temperature VST/B 120	149	°C	ISO 306
Vicat temperature VST/B 50	148	°C	ISO 306
Thermal conductivity	0,20	W/m.K	ISO 8302
Electrical properties			
Volume resistivity, dry	>10 ¹⁴	Ω . m	IEC 60093
Surface resistivity, dry	10 ¹⁶	Ω	IEC 60093
Dielectric strength, dry	30	kV/mm	IEC 60243
Dielectric constant, dry 50 Hz	3		IEC 60250
Dielectric constant, dry 1 MHz	2,9		IEC 60250
Dissipation factor (tan δ), dry 50 Hz	0,001		IEC 60250
Dissipation factor (tan δ), dry 1 MHz	0,01		IEC 60250

Properties reported here are typical values. Arla Plast makes no representation that the material in any particular shipment will conform exactly to the values give. The above information is based upon experience and given in good faith. Due to many factors which are outside our knowledge and control, no warranty is given or is to be implied with respect to such information. Detailed product specification and technical manual/information is available on request.

March 2020

Statement

Makroclear® sheets do not break or break safely

MAKROCLEAR®, polycarbonate sheet from Arla Plast AB are highly impact resistant sheets and known as virtually unbreakable.

When the sheets do break, they will break safely and splitter-free and will NOT break into sharp or small pieces, fulfilling hereby HACCP requirements.

This is also valid for Makroclear in thickness 0,75 – 1 mm

The above is only valid if sheet are stored and handled according to the prescriptions, and if the sheet have not been exposed to non-compatible environments and have not been fabricated.

The management system of Arla Plast AB is AFS 2001:1, ISO 14001:2015, ISO 45001:2018 and ISO 9001:2015. certified.