BOUNDLESS POSSIBILITIES FOR TRANSPORT AND INDUSTRY APPLICATIONS.
HIGH QUALITY SHEETS FOR THE APPLICATION AREAS

RAIL | MARINE | BUS | CARAVAN
VEHICLE CONSTRUCTION
AGRICULTURAL VEHICLES
PACKAGING | SANITARY
FURNITURE CONSTRUCTION
STREET FURNITURE | MACHINERY CASING
PARTITION WALLS | CLADDING
PROTECTIVE COVERING
INSULATION | COOLING
ROOF | ROOF APPLICATIONS
GLAZING | CEILING LIGHTING

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3A Composites Transport & Industry Europe is an international division of the 3A Composites Group and part of Schweiter Technologies AG. We are the leading manufacturer, along with Athlone Extrusions Ltd. and the Polycasa Group, for extruded plastic sheets, aluminium composite materials and lightweight foam boards for the fields of agricultural and commercial vehicles, caravans, sanitary ware, furniture construction, shipbuilding and the rail vehicle construction industry.

On the following pages, we would like to present our wide and diversified product portfolio. This variety means that we can offer our customers a unique and perfectly coordinated range of products – and everything is from a single source.

We attach particular importance to sustainable manufacturing processes and environmentally friendly materials. Our goal is to ensure the prompt supply of innovative, top-quality products which are tailored to our customers’ needs.

BOUNDLESS POSSIBILITIES FOR TRANSPORT AND INDUSTRY APPLICATIONS.

In this brochure, we would like to provide you with an initial and general overview of our extensive product range. Please note that in some cases, versions of featured products may not be available in all specified colours and thicknesses and that certain processing options may not apply to all product versions. Please refer to the appropriate individual product brochures and delivery programmes for detailed information and product availability. We are, of course, happy to provide you with more comprehensive processing instructions for each product. Please contact your customer service representative or use the contact form on our website www.transport-industry.com. We are happy to offer advice!
MATERIAL
Aluminium composite with honeycomb core

PRODUCT VERSIONS
ALUCORE®
ALUCORE® base

COLOURS
Platinum white | Mill-finish and other colours on request

THICKNESSES
6 to 25 mm

APPLICATIONS
Machine guards
Partitions | Cladding
Protective covers
Rail
Road
Urban street furniture
Marine applications | Shipbuilding
Industrial applications
Roofing and ceiling applications
Bus shelters
Sound proofing | Insulation
Furniture construction
Carrier plate for lamination

PROCESSING
Form milling
Water jet cutting
Thread cutting
Shearing | Sawing
Die cutting | Gouging
Clamping | Drilling | Riveting | Screwing
Routing and folding (V-groove) | 3D
Cold bending | Cold folding

ALUCORE®, an composite panel consisting of two aluminium cover layers and an aluminium honeycomb core, is a versatile material for applications in the transport and industry sector. It is characterized by its lightweight, high rigidity, optimum flatness, good formability and a wide variety of different thicknesses and formats.

ALUCORE® is a popular choice for both outdoor and indoor applications in shipbuilding because composite panels are easily processed to create partition walls, doors and ceilings with optimum strength values. ALUCORE® composite panels are the ideal material for special interior fittings, wall and ceiling claddings, truck superstructures, as well as door and flap systems in the rail and road vehicle manufacturing sector.

The product version ALUCORE® base is perfectly suited as a lightweight base panel to add further laminates for shipbuilding as well as for transport and industrial applications.

ALUCORE® and ALUCORE® base are MED-approved for the shipbuilding industry and meet the requirements for rail vehicles according to EN 45545-2 for R1 (HL3).

THE HONEYCOMB PANEL AMONGST ALUMINIUM COMPOSITE PANELS.
APPLICATIONS
- Machine guards
- Partitions
- Cladding
- Protective covers
- Rail | Road | Urban street furniture
- Marine applications | Shipbuilding
- Industrial applications
- Roofing and ceiling applications
- Shower cabins | Sanitary ware
- Bus shelters
- Furniture construction | Carrier plate for lamination

MATERIAL
Aluminium composite

PRODUCT VERSIONS
ALUCOBOND® PLUS
ALUCOBOND® A2

COLOURS
- UNI | METALLIC | SPECTRA | SPARKLING | NATURAL | ANODIZED LOOK | TERRA | URBAN | VINTAGE
- ALUCOBOND® LEGNO | DESIGN

THICKNESSES
- 4 mm
- 3 and 6 mm on request

PROCESSING
- Form milling
- Water jet cutting
- Shearing | Sawing | Die cutting
- Glueing | Clamping
- Drilling | Riveting | Screwing
- Welding
- Routing and folding (V-groove) | 3D
- Cold bending | Cold folding
- Engraving (laser / groover)
- Embossing

PRODUCT
ALUCOBOND® is the original aluminium composite panel consisting of two aluminium cover layers and a flame-retardant, mineral (ALUCOBOND® PLUS) or a non-combustible, mineral (ALUCOBOND® A2) core.

ALUCOBOND® is characterized by the combination of formability, flatness, rigidity and resistance to weathering. Even large format ALUCOBOND® panels demonstrate an impressive strength-to-weight ratio due to their composite structure.

ALUCOBOND® – NEXT & BEYOND.

Thanks to easy processing options, the areas of application for ALUCOBOND® are extremely diverse and include vehicle construction, shipbuilding, rail vehicle construction or industrial applications such as machinery casing, clean room technology and lift construction – the opportunities are numerous.

ALUCOBOND® PLUS has MED approval for shipbuilding. Both ALUCOBOND® PLUS and ALUCOBOND® A2 meet the requirements of class HL3 according to EN 45545-2 for R1 – use in rail vehicles.

ALUCOBOND® – NEXT & BEYOND.
HYLITE® is an aluminium composite panel with a polypropylene core and aluminium cover layers. Due to two different types of core, the product range offers a wide variety of options for many different applications.

HYLITE® is the world’s thinnest composite panel and its compact core material, in 1.2 or 2 mm thicknesses, provides a special hinge function, i.e. HYLITE® withstands repeated bending without damage. The hinge function is achieved by milling grooves into the outer aluminium cover layers in an identical position on both sides.
PROCESSING

Laminating | Mounting
Cutting | Plotting
Foam milling | Sawing
Glueing
Drilling | Screwing
Routing and folding (V-groove) | 3D

APPLICATIONS

Machine guards
Partitions | Cladding
Rail
Road
Marine applications | Shipbuilding
Roofing and ceiling applications
Air ducts
Furniture construction

THICKNESSES

5 and 10 mm

COLOURS

White
Other colours on request

MATERIAL

Aluminium composite with polyurethane foam core (PUR)

TYPICAL APPLICATIONS

Machine guards
Partitions | Cladding
Rail
Road
Marine applications | Shipbuilding
Roofing and ceiling applications
Air ducts
Furniture construction

KAPA®tech, an innovative lightweight sheet featuring a unique composition of a polyurethane foam core and aluminium cover layers, combines lightweight with rigidity.

Thanks to the lacquered aluminium cover layers and a temperature and moisture-resistant core, KAPA®tech is the first KAPA® sheet for both indoor and outdoor applications.

KAPA®tech is not only suitable for outdoor use – one of the product’s main advantages is its fire classification:

It is flame retardant and qualifies as “difficult-to-ignite”.

KAPA®tech is also available with a MED-certified composition for shipbuilding and also complies with the requirements for use in rail vehicles according to EN 45545-2 for R1 (HL3).

KAPA®tech offers excellent properties for diverse applications in the transport sector, for industrial applications as well as for furniture and interior design.

INNOVATIVE PRODUCT WITH UNIQUE PROPERTIES:

LIGHTWEIGHT – STRONG – FIRE RATED.
APPLICATIONS

KAPA®inlay:
- Road
- Industrial applications
- Furniture construction
- Carrier plate for lamination

KAPA®protect:
- Protective covers | Edge protection
- Packaging board for transport protection

KAPA®iso:
- Transport packaging with excellent insulation properties

PRODUCT VERSIONS

KAPA®inlay: Beige
KAPA®protect and KAPA®iso: Grey

COLOURS

KAPA®inlay: 3 to 20 mm
KAPA®protect: 5, 8 and 10 mm
KAPA®iso: 3.5 and 6 mm
Other thicknesses on request

THICKNESSES

KAPA®inlay: 3 to 20 mm
KAPA®protect: 5, 8 and 10 mm
KAPA®iso: 3.5 and 6 mm
Other thicknesses on request

PROCESSING

KAPA®inlay and KAPA®protect are lightweight foamboards with a closed-cell polyurethane foam core and both-sides polyester nonwoven surface layers. KAPA®inlay is also used as a base panel for CPL, HPL, metal, plastic and GRP coatings in addition to applications for furniture and interior design purposes.

KAPA®iso is a lightweight foamboard with a polyurethane foam core and both-sides metallised composite film. It is the ideal material for die-cut transport packaging in a variety of formats with excellent insulating properties (hot and cold) for a period of 12 to 24 hours.

KAPA®protect is a versatile foamboard for packaging and protecting products such as coils and tubes (litho coils, metal, paper and plastic film rolls) during transport and for use as edge protection.

LIGHTWEIGHT FOAM BOARDS

SOPHISTICATED TECHNOLOGY.
APPLICATIONS
Machine guards  
Partitions | Cladding  
Road  
Urban street furniture  
Marine applications | Shipbuilding  
Industrial applications  
Shower cabins | Sanitary ware  
Furniture construction

PROCESSING
Cutting | Plotting  
Form milling | Thread cutting  
Sawing | Die cutting | Glazing | Drilling | Screwing  
Routing and folding | 3D  
Hot bending | Hot folding  
Thermoforming  
Cold bending | Cold folding  
Engraving (laser / graver)  
Tempering  
Polishing

COLOURS
Clear transparent | Opal / White | Brown  
Other opaque, translucent colours and patterned surfaces (Prismatic, Impala, Haircell) with or without UV protection available on request

MATERIAL
PC (Polycarbonate)

PRODUCT VERSIONS
IMPEX® (Standard)  
IMPEX® UVP  
IMPEX® HC

THICKNESSES
1 to 20 mm

PRODUCT
IMPEX® stands for a wide range of large format, extruded, virtually unbreakable polycarbonate sheets with excellent optical and mechanical properties. The product range comprises an array of different surfaces, versions and patterns. The high quality sheets are extremely impact resistant, which means they can provide comprehensive solutions for both indoor and outdoor use.

IMPEX® UVP with UV protection on both sides and excellent resistance to weathering is especially suitable for use outdoors.

IMPEX® HC with good impact resistance and enhanced surface abrasion resistance is suitable for flat applications both indoors and outdoors.

EXTRUDED POLYCARBONATE SHEETS WITH EXCEPTIONAL CHARACTERISTICS.
APPLICATIONS
Partitions | Cladding
Roofing and glazing for carports, patios, conservatories and pergolas
Skylights
Greenhouses
Swimming pool covers

COLOURS
Clear transparent | Opal | Bronze |
Other colours on request

THICKNESSES
Variety of different profile designs:
4/2 w | 6/2 w | 8/2 w | 10/2 w | 10/4 w | 16/3 w
16, 20, 25 Diamond

PROCESSING
Sawing | Glueing | Drilling

PRODUCT
IMPEX® MULTIWALL are extruded, multi-wall polycarbonate sheets which are virtually unbreakable. The particular benefits offered by the sheets are their light-weight, excellent optical properties, high impact resistance and very good resistance to weathering. They also have insulating properties for cold and hot.

EXTRUDED MULTIWALL POLYCARBONATE SHEETS WITH HIGH IMPACT RESISTANCE.
APPLICATIONS
- Shower cabins
- Sanitary ware
- Lighting
- Glazing

Form milling | Laser cutting
Thread cutting
Sawing
Gluing
Drilling
Screwing
Routing and folding | 3D
Hot bending | Hot folding
Thermoforming
Engraving (laser / graver)

PROCESSING

Some product versions may have restricted processing options.
Our experienced team of engineers at the Technical Department is available to offer help and answer any questions.

MATERIAL
PS (Polystyrene)

COLOURS
- Clear transparent
- Clear transparent with anti-reflective on one side
- Variety of translucent and opaque colours as well as different patterns available on request

THICKNESSES
- 0.85 to 5 mm

VERSATILE, EFFECTIVE, ATTRACTIVE.

PRODUCT

POLYCAS® PS stands for extruded crystal polystyrene sheets which provide solutions for many indoor applications. Thanks to the extrusion process, alongside the clear transparent standard products (with or without anti-reflective), there are also a variety of colours and patterns, especially for the manufacturing of shower cabins, on offer.

POLYCAS® PS sheets are used for a number of different purposes in the sectors of sanitary ware as well as interior glazing and lighting applications.
APPLICATIONS
- Machine guards
- Partitions | Cladding
- Protective covers
- Shower cabins | Sanitary ware
- Solariums
- Furniture construction

MATERIAL
- HIPS (High-Impact-Polystyrene)

PRODUCT VERSIONS
- P90M: Co-extruded to provide a consistent low matt finish
- P91: Gloss HIPS containing a co-extruded GPPS layer for improved aesthetics and a high gloss finish
- P90S: ESCR (FREON) – Improved chemical resistance and low temperature performance. Especially for the refrigeration industry
- P90D: ESCR (FREON) – Thin gauge HIPS specifically for the furniture door market
- P90F / P91F: Suitable for use with foodstuffs
- P90SIL: Standard matt HIPS with silicone additives to achieve gliding properties
- P90CD: Low volume resistivity grade

COLOURS
- Limitless variety of colours

THICKNESSES
- 1 to 6 mm

PROCESSING
- Form milling
- Laser cutting
- Water jet cutting
- Shearing | Sawing | Die cutting
- Glueing
- Clamping
- Drilling | Screwing
- Welding
- Hot bending | Hot folding
- Thermoforming
- Engraving (laser / graver)
- Embossing
- Tempenting
- Polishing

Some product versions may have restricted processing options. Our experienced team of engineers in the Technical Department is available to offer help and answer any questions.

ATHLONE Extrusions™ HIPS is a versatile, economic, solid thermoplastic characterised by its ease of processing in flat sheet and thermoforming applications.

ATHLONE Extrusions™ HIPS is available in an infinite range of opaque colours including special effects and can be extruded in gloss or matt. The matt versions are available in a diverse range of surface textures.

VERSATILE – AVAILABLE AS REELS AND SHEETS.
APPLICATIONS

Machine guards
Partitions / Cladding
Protective covers
Bath panels and shower wall panels
Sanitary ware
Solariums
Furniture construction
Form milling
Laser cutting
Thread cutting
Sawing
Gluing
Drilling
Screwing
Routing and folding | 3D
Hot bending | Hot folding
Thermoforming

PROCESSING

White | Black | In matt or glossy finish | Other colours and patterns (Pinseal, Grain, Smart & Leather) available on request

COLOURS

MATERIAL

HIPS (High-Impact-Polystyrene)

THICKNESSES

0.5 to 10 mm

PRODUCT

POLYCASA® HIPS is a rubber-modified polystyrene sheet which offers enhanced impact resistance and is easy to process. The product is available with either a matt finish on both sides or with a matt finish on one side and a glossy surface on the other.

The sheets’ surface quality is outstanding, they offer very good electrical insulation properties and are an excellent printing substrate. In addition, they are suitable for thermoforming.

ENHANCED IMPACT RESISTANCE. EASY TO CUT AND FORM.

Some product versions may have restricted processing options. Our experienced team of engineers in our Technical Department is available to offer help and answer any questions.
APPLICATIONS
Industrial (door) glazing
Partitions | Cladding
Sanitary ware
Furniture construction
Greenhouse glazing
Partition walls

PROCESSING
Form milling
Laser cutting | Thread cutting
Sawing
Glueing
Drilling
Screwing
Routing and folding | 3D
Hot bending | Hot folding
Thermoforming
Cold bending | Cold folding
Engraving (laser / graver)

POLYCASA® SAN is an extruded styrene-acrylonitrile copolymer (SAN) sheet. The SAN programme offers solutions for both indoor and outdoor applications. For outdoor use, we recommend the version with UV protection.

Compared to conventional transparent materials, these sheets provide real benefits – weighing 10% less but with considerably enhanced rigidity, POLYCASA® SAN sheets can be up to one third thinner for similar applications. In addition, POLYCASA® SAN is exceptionally resistant against water and chemical absorption.

Thanks to their extreme lightweight and UV resistance, POLYCASA® SAN sheets are the perfect choice for glazing in industrial doors and, when electrical motors are used to operate the doors, a considerable amount energy can be saved.

LIGHTER, BUT STIFFER.
APPLICATIONS
- Machine guards
- Partitions | Cladding
- Road
- Urban street furniture
- Industrial applications
- Furniture construction

PROCESSING
- Cutting | Plotting
- Form milling
- Laser cutting
- Thread cutting
- Sawing | Die cutting
- Glueing
- Drilling | Screwing
- Welding
- Routing and folding | 3D
- Hot bending | Hot folding
- Thermoforming
- Cold bending | Cold folding
- Hinge function (bending cycle)
- Engraving (laser / graver)
- Tempering

COLOURS
- Clear transparent (with or without anti-reflective) | Opal 30% | Other colours on request

THICKNESSES
- LUMEX® A: 0.5 to 6 mm
- LUMEX® G: 0.5 to 10 mm

PRODUCT

LUMEX® stands for flawlessly extruded transparent and translucent A-PET and PET-G thermoplastic poly-ester sheets. Both products ensure excellent printing results with UV-resistant inks, have a high level of impact resistance, are easy and fast to process and the UV protection version offers good resistance to weathering.

In addition, LUMEX® is classed as “difficult-to-ignite” and suitable for food applications.

A CLEAR CHOICE.

PET (Polyethylene Terephthalate)

PRODUCT VERSIONS
- LUMEX® A
  - for flat and cold bending applications
- LUMEX® G
  - ideal for vacuum and thermoforming

PROCESSING
- Cutting | Plotting
- Form milling
- Laser cutting
- Thread cutting
- Sawing | Die cutting
- Glueing
- Drilling | Screwing
- Welding
- Routing and folding | 3D
- Hot bending | Hot folding
- Thermoforming
- Cold bending | Cold folding
- Hinge function (bending cycle)
- Engraving (laser / graver)
- Tempering

Some product versions may have restricted processing options. Our experienced team of engineers in the Technical Department is available to offer help and answer any questions.

LUMEX® stands for flawlessly extruded transparent and translucent A-PET and PET-G thermoplastic polyester sheets. Both products ensure excellent printing results with UV-resistant inks, have a high level of impact resistance, are easy and fast to process and the UV protection version offers good resistance to weathering.

In addition, LUMEX® is classed as “difficult-to-ignite” and suitable for food applications.

A CLEAR CHOICE.

LUMEX® stands for flawlessly extruded transparent and translucent A-PET and PET-G thermoplastic polyester sheets. Both products ensure excellent printing results with UV-resistant inks, have a high level of impact resistance, are easy and fast to process and the UV protection version offers good resistance to weathering.

In addition, LUMEX® is classed as “difficult-to-ignite” and suitable for food applications.
APPLICATIONS
- Machine guards
- Partitions / Cladding
- Road
- Urban street furniture
- Industrial applications
- Furniture construction

PROCESSING
- Cutting / Plotting
- Form milling
- Laser cutting
- Thread cutting
- Sawing / Die cutting
- Glueing
- Drilling / Screwwing
- Welding
- Routing and folding / 3D
- Hot bending / Hot folding
- Thermoforming
- Cold bending / Cold folding
- Hinge function (bending cycle)
- Engraving (laser / graver)
- Tempering

MATERIAL
- PET (Polyethylene Terephthalate)

PRODUCT VERSIONS
- HIPEX® A – for cold bending applications
- HIPEX® G – for complex thermoforming

COLOURS
- Clear-transparent (with or without anti-reflective)
- Opal 30%
- Other colours on request

THICKNESSES
- HIPEX® A: 0.5 to 6 mm
- HIPEX® G: 0.5 to 20 mm

PRODUCT
The HIPEX® product range includes extruded A-PET and PET-G thermoplastic polyester sheets. These sheets are characterized by their impressive impact strength, outstanding transparency, excellent printability with UV-resistant inks, plus their fast and easy processing options.

In addition, HIPEX® sheets are fire rated “difficult-to-ignite” meaning that they are the best possible choice for a wide range of different indoor and outdoor applications. For outdoor use, we recommend the version with UV protection.

The HIPEX® product range is ideal when it comes to forming. HIPEX® A is especially suited for cold-bending applications, HIPEX® G for complex thermoforming.

HIPEX® sheets are recyclable within their own category of plastic waste.

FLAWLESSLY EXTRUDED A-PET AND PET-G THERMOPLASTIC POLYESTER SHEETS.
APPLICATIONS
- Skylights | Roofing
- Partitions | Cladding
- Door and gate glazing
- Caravan windows
- Sound barrier walls
- Form milling
- Laser cutting
- Water jet cutting
- Thread cutting
- Sawing
- Drilling | Screwing
- Welding
- Hot bending | Hot folding
- Thermoforming
- Engraving (laser / graver)
- Tempering
- Polishing

PROCESSING
- PMMA (Acrylic glass)

PRODUCT VERSIONS
- CRYLON® (Standard)
- CRYLON® HI
- CRYLON® UVT
- CRYLON® Surface structures
- CRYLON® Soft Tone
- CRYLON® Sound Barrier Wall (SBW)
- CRYLON® Sound Barrier Wall Soft Tone

COLOURS
- Clear / Opal / White / A range of standard colours
- Other colours on request

THICKNESSES
- 1.5 to 25 mm

PRODUCT
CRYLON® comprises an extensive range of large-format, extruded acrylic glass sheets featuring outstanding clarity and first-rate optical characteristics, excellent colour rendering and varying degrees of transparency.

The premium quality surfaces have a high level of resistance to weathering and aging, and provide solutions for a variety of indoor and outdoor applications.

For special applications, the product range offers the particularly impact-resistant version CRYLON® HI (High Impact).

CRYLON® UVT is ideal for solariums and sunbeds. The sheets have high transmittance in the UV-A/UV-B spectral range and very good resistance to degradation following exposure to these rays.

CRYLON® Soft Tone is characterised by double-sided matt surfaces.

CRYLON® Sound Barrier Wall (SBW) is a sound-absorbing material for soundproofing against traffic noise. CRYLON® Sound Barrier Wall Soft Tone has an impressive silky matt surface which prevents light reflections and enhances light diffusion.

EXTRUDED ACRYLIC IN BRILLIANT CLARITY.
APPLICATIONS
- Machine guards
- Partitions | Cladding
- Protective covers
- Road
- Urban street furniture
- Industrial applications
- Roofing and ceiling applications
- Bath and shower trays | Sanitary ware
- Solariums
- Bus shelters
- Furniture construction
- Parts for vehicle cladding

MATERIAL
- PMMA/ABS

PRODUCT VENTIONS
- A8401 - Outdoor grade. Full UV stability
- A8402ML - Surface with metallic effect
- A8301D - Furniture grade – suitable for surfaces in kitchen and living areas
- A8301P - Sanitary grade – suitable for washbasins and bath panels
- A8301T - Sanitary grade – specially designed for the shower tray industry
- A8401XM-ST - Granite finish surface

PROCESSING
- Form milling
- Laser cutting | Water jet cutting
- Shearing | Sawing | Die cutting
- Glueing | Clamping | Drilling | Screwing
- Welding
- Routing and folding | 3D
- Hot bending | Hot folding | Thermoforming
- Engraving (laser/graver) | Embossing
- Tempering | Polishing

COLOURS
- Limitless variety of colours

THICKNESSES
- 1.5 to 10 mm

PRODUCT
ATHLONExtrusions™ PMMA/ABS is a multi-layer, combination of PMMA co-extruded on high impact ABS. The benefits of this construction include an excellent A-face finish in a range of gloss levels. Properties included within the range include superior scratch resistance, improved chemical resistance and excellent UV stability.

DISTINCTIVE COMPOSITE.

All versions are offered in an extremely wide variety of colours including metallics, granite and special effects and provide easy thermoforming processing characteristics.

LIMITLESS VARIETY OF COLOURS

ATHON Extrusions™ PMMA/ABS

ATHLON Extrusions™ PMMA/ABS is a multi-layer, combination of PMMA co-extruded on high impact ABS. The benefits of this construction include an excellent A-face finish in a range of gloss levels. Properties included within the range include superior scratch resistance, improved chemical resistance and excellent UV stability.

ATHLON Extrusions™ PMMA/ABS

ATHLON Extrusions™ PMMA/ABS is a multi-layer, combination of PMMA co-extruded on high impact ABS. The benefits of this construction include an excellent A-face finish in a range of gloss levels. Properties included within the range include superior scratch resistance, improved chemical resistance and excellent UV stability.
APPLICATIONS

- Machine guards
- Partitions / Cladding
- Protective covers
- Road
- Industrial applications
- Solariums
- Furniture construction

MATERIAL

ABS (Acrylnitril-Butadien-Styrol-Copolymere)

PRODUCT VERSIONS

- B400: Very high impact strength
- B250: High heat ABS engineered for applications where a higher heat deflection temperature is required
- B500R: Ignition resistant according to UL94 V-0
- B150: Recycled ABS grade range
- ASAB300: ASA capped ABS
- B401FOIL: Decorative foils in PVC, PVDF and PMMA laminated on high impact ABS
- B401SOFT: TPU co-extruded on ABS presenting a soft feel
- B360P: Electroplating grade with a high gloss finish

PROCESSING

- Form milling
- Laser cutting
- Water jet cutting
- Shearing / Sawing / Die cutting
- Glueing
- Clamping
- Drilling / Screwing
- Welding
- Hot bending / Hot folding
- Thermoforming
- Engraving (laser / graver)
- Embossing
- Tempering
- Polishing

COLOURS

Limitless variety of colours

THICKNESSES

1.5 to 8 mm

Some product versions may have restricted processing options. Our experienced team of engineers in the Technical Department is available to offer help and answer any questions.

PRODUCT

ATHLONExtrusions™ ABS is an engineering thermoplastic material with excellent impact strength for use in areas where toughness and durability are of key importance.

ATHLONExtrusions™ ABS is produced in an infinite range of colours, finishes and textures, and features excellent and easy processing with a wide thermoforming temperature window. There are a very wide range of grades available to suit a multitude of applications.

OUTSTANDING MATERIAL AND PROPERTIES.

ATHLONExtrusions™ Extrusions ™ ABS
APPLICATIONS
Machine guards
Partitions | Cladding
Protective covers
Road
Urban street furniture
Industrial applications
Shower cabins | Sanitary ware
Solariums
Bus shelters
Furniture construction

MATERIAL
PP (Polypropylene)

PRODUCT VERSIONS
PP620TF Standard grade in semi-matt finish
PP620TF-LT Improved impact strength (especially for low temperature range)
PP620TF-G Gloss version of standard grade, similar to painted metal

PROCESSES
Form milling
Laser cutting | Water jet cutting
Shearing | Sawing | Die cutting
Gluing
Clamping
Drilling | Screwing
Thermoforming
Engraving (laser / graver)
Embossing
Tempering
Polishing

COLOURS
Limitless variety of colours

THICKNESSES
2 to 5 mm | 2 to 6 mm with textured surface

PRODUCT
ATHLONExtrusions™ PP is a talc-filled, extremely high impact plastic sheet.

The specific formula used is designed to offer similar vacuum-forming characteristics to styrenic materials, with fast cycle times, a relatively wide moulding temperature window and low post mould shrinkage rates in comparison to alternative polyolefins. In general, it is possible to use existing tooling designed for styrenic materials to mould the ATHLONExtrusions™ PP grades.

HEAT AND EXTREMELY IMPACT RESISTANT.

SMARTSHEET™ PP

ATHLONExtrusions™ Extrusion Process: 80% reduction in cycle time, lower material costs and a lower tooling cost.