



# The Plastic Sheet Specialists

**Reduce • Reuse • Respect • Recycle**

# about eagle

It is hard to imagine a world without plastic - a modern-day material used for its versatility, durability and cost saving- benefits.

We have been supplying thermoplastic sheet and film material for 25 years and keen to share our vast knowledge on how plastics can be used and recycled.

## Our motto – Reduce, Reuse, Respect, Recycle

We wholesale and supply a wide variety of types, sizes, finishes, gauges and colours with over 95% of our 600 tonnes of stockholding being recyclable. We are playing our part to educate and advise on the most appropriate use, reuse and eventual disposal.

## Fast delivery

Centrally based in Leicestershire means our fleet of vans can deliver next day as standard, and offer same day or timed deliveries (± 30-minute windows) for those uber urgent orders.



# eagle history

We were 25 years old in 2019! The world of plastics has seen significant changes and so have we! What a quarter of a century it has been. From our humble beginnings in a 2,000 ² ft facility in Oadby to now stocking over 600 tonnes of products at our central distribution centre in Leicester. We could not have done it without the support of our valued customers – so thank you!

1994	1997	2000	2004	2010	2019
<b>START OF OUR STORY</b> Eagle Plastics Limited was born, 3rd May to service many of the design and print businesses around the Central Midlands.	<b>THE BIG MOVE</b> As the business blossomed we moved premises to Langham Road, Thurmarsh APET increasing capacity to 9,000² ft with further investment in plant and machinery. Colour was starting to be used in plastics – a shift from the standard black and white.	<b>INVESTMENT</b> Further investment in fleet to ensure quicker deliveries and servicing clients beyond our initial 100-mile radius.	<b>(ANOTHER) BIG MOVE</b> We moved premises again to the current site at Highmeres Road with further capacity to expand the stock holding to the current 600 tonnes.	<b>CUT ABOVE</b> Investment in a CNC beam saw to offer bespoke cutting service to clients in order to help reduce waste and maximise sheet yield.	<b>CELEBRATION</b> We celebrate 25 years in service with a reputation for delivering exceptional customer service. The original Directors are still at the helm to offer advice and share their vast industry knowledge.

# the eagle difference

So what sets us apart from other thermoplastic sheeting suppliers? Lots!

## Stockholding

We hold over 600 tonnes of products in our Leicester warehouse. This means we can deliver next day, same day or within a specific time, where required on a vast selection of colours, finishes, sizes and thicknesses.

## Speedy delivery

Do you need a same day or even a timed delivery with a ±30 minute window? No problem. Our standard delivery is next day, but we understand that last minute glitches can happen. You are welcome to collect your order from our Leicester warehouse if you are passing or we will deliver to your door using our own fleet of vehicles.

## Experts in our field

We literally sleep and breathe thermoplastic sheeting. All of the team do.

We share a passion that has developed over our 25 year heritage to ensure we offer the best technical advice, the most professional support and fastest response times.

## Cut to size

If you have a specific size requirement, then no problem. Our team can cut to size using the most advanced machinery to ensure accuracy within 0.5mm. We will help you yield the maximum possible from each sheet in order to reduce waste and cost.

## Colour matching – when red means crimson

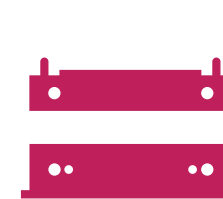
Red isn't just red. It can be scarlet, magenta, maroon, claret or crimson. Matching to your colour brand or your theme is important to you, and therefore a priority for us. We can colour match to your requirements and send out sample swatches to get that shade of red spot on!

## Recycling – is there life after use?

Done its job? What next? Once you have finished with your plastic, do consider if a new lease of life is possible. Can it be recycled and ground down to be re-used back through the supply chain? In this 'throw away' society of ours, let us do our best to reduce waste to landfill. Get in touch to find out about our competitive buyback option.

# applications

Thermoplastic sheet is used everywhere as a highly versatile alternative to other raw materials such as wood, metal, or glass. Check out some of their applications.



Vacuum Forming



Fabrication



Screen Print



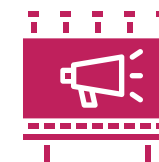
Engineering



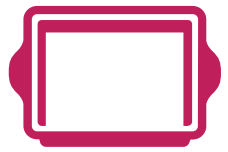
Diamond Polish



Flame Polish



Signage



HIPS/ABS Foiling

# ABS

Acrylonitrile Butadiene Styrene, commonly known as ABS, combines three unique compounds to create a versatile and cost-effective thermoplastic polymer. It is a general use, mid-level performance material, combining the strength and rigidity of acrylonitrile and styrene polymers with the toughness of polybutadiene rubber.

It has a strong resistance to corrosive chemicals and high impact resistance.

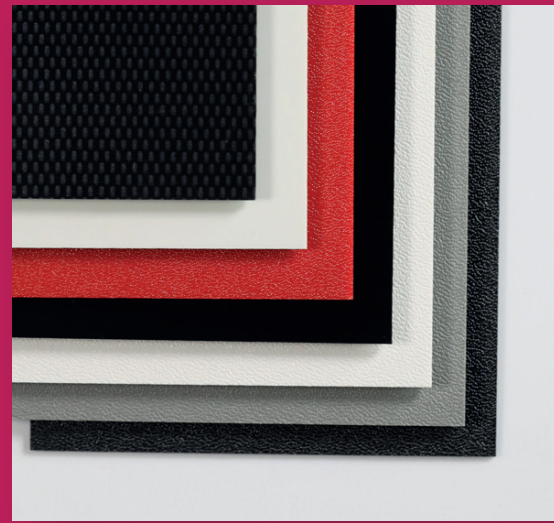
Its properties make it the 'go to' option for both prototyping and 3D printing.

ABS sheet is the most widely used engineered thermoplastic sheet and available in a range of textured, smooth and embossed finishes, offered in virgin, recycled and flame retardant grades. ABS can be easily machined, either by turning, drilling, milling, sawing, die-cutting or shearing. Its low melting temperature makes it simple to use in vacuum forming, fabricating and printing.















ABS can be cut using standard shop bought tools, and line bent with standard heat strips. It can be chemically affixed to

either itself or other similar plastics, easily machined, sanded, glued and painted. Its lightweight and ability to be injection moulded make it ideal for use in manufacturing a wide range of products including automotive car bumpers, enclosures for electrical assemblies, protective headgear, luggage and carrying cases, toys, household and consumer goods.

There are countless applications for ABS.

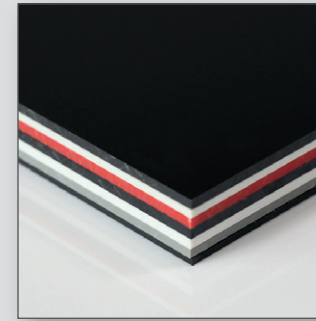


## ABS applications

 <b>Automotive Interior &amp; Exterior</b>	 <b>Home Appliances</b>	 <b>Luggage</b>	 <b>Machine Components</b>	 <b>Architecture Models</b>
 <b>Signs, Displays &amp; POS</b>	 <b>Film &amp; Stage Production</b>	 <b>Medical / Surgical</b>	 <b>Print / Litho Print</b>	 <b>Transport</b>
 <b>Education</b>	 <b>Shop Fitters</b>	 <b>Construction</b>	 <b>Leisure</b>	

## ABS variations

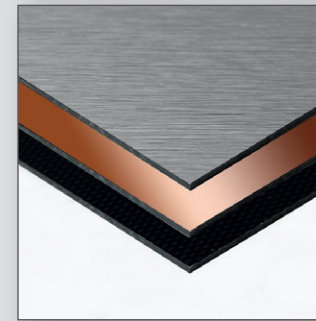
We stock an extensive range of ABS plastic sheet with different finishes and uses.



### Recycled ABS

Reusing ABS (acrylonitrile butadiene styrene) to create Recycled ABS is becoming increasingly popular as virgin ABS can prove to be expensive as a raw material. The used ABS is first shredded with the recovered acrylonitrile butadiene styrene then used with virgin ABS to produce a new product.

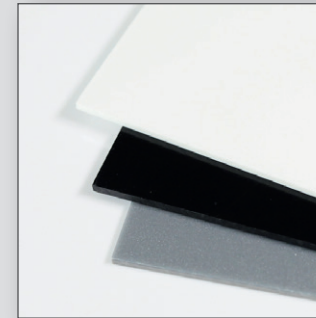
All of our ABS plastic can be recycled using a recycling 'forth flotation' process.



### Foiled ABS

We can supply a range of foiled ABS (where foil is applied to standard ABS sheet) with standard designs including brushed aluminium, woven carbon, and chrome mirror to increase the visual appearance, imitate other material and improve the scratch resistance of the product.

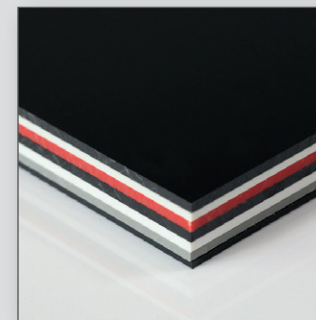
Our foiled ABS is ideal for vacuum forming, fabrication, printing. Our foiled ABS is becoming increasingly popular to create dance floors and enhance Point of Sale displays. We can supply in many different finishes including wood grain and aluminium.



### Acrylic Capped ABS

Acrylic Capped ABS (sometimes known as acrylic ABS or ABS acrylic) is a product combining the normal characteristics of ABS (impact, strength and durability) with those of PMMA (Polymethyl methacrylate) to give excellent scratch resistance, improved aesthetic performance and where necessary exceptional weatherability.

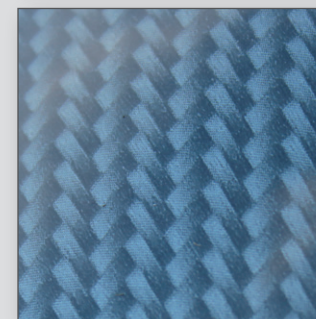
Acrylic Capped ABS possesses all of the benefits of ABS and features a gloss finish and extra life span.



### Flame Retardant ABS

Our ABS Plastic Sheet is also available as a Fire Retardant ABS Sheet which has excellent fire ignition resistance certified UL94 VO classification. In addition, our Fire Retardant ABS Sheet displays the same qualities as ABS namely high resistance to impact, strength, rigidity and exceptional chemical and abrasion resistance.

Its properties make it an ideal choice for fire critical applications such as public buildings, petrol forecourts, airports, parts such as electronics. The material can be screwed, drilled, routed, punched, or die-cut using conventional tools.



### Carbon Fibre CT60 ABS

This product is ideal for the automotive trade, even when deep moulding is required. It adds style, and gives a realistic appearance of a carbon fibre finish for a high tech look.

For sheet sizes and finishes please see pg 12.



# HIPS

High Impact Polystyrene (HIPS) is one of the most widely used plastics and popular within the Point of Sale (POS), display and signage market due to its visual appearance (colour options, gloss level, texture), the ease with which it can be processed along with its antistatic and electrical conductivity.





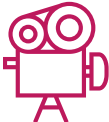









A versatile, cost-effective, impact-resistant material, which is easy to vacuum form, extrude, bend and mould into shape. It boasts extreme malleability and can be re-moulded over and over, making it environmentally friendly, as it can be recycled.

The rubber content gives it extra durability and impact strength and often used by vacuum formers and fabricators for commercial and industrial applications including handling trays, children's toys, automotive and appliance components. High Impact Polystyrene is strong, safe to use, cost-effective, versatile and recyclable. It ticks a lot of boxes!

As a leading thermoplastic sheet wholesaler, we stock an extensive range of HIPS sheets (colours, sizes, gloss and matt), different surface finishes (including pinseal and leather grain).

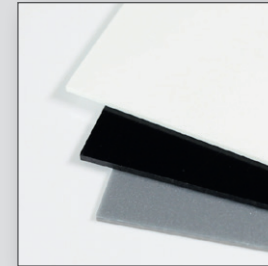


## HIPS applications

 <b>Signs, Displays &amp; POS</b>	 <b>Shop Fitters</b>	 <b>Print / Litho Print</b>	 <b>Education</b>	 <b>Film and Stage Production</b>
 <b>Medical / Surgical</b>	 <b>Luggage</b>	 <b>Dancefloors</b>	 <b>Sanitary Ware</b>	 <b>Cosmetics</b>
 <b>Automotive Interior &amp; Exterior</b>	 <b>Home Appliances</b>	 <b>Construction</b>	 <b>Leisure</b>	 <b>Transport</b>

## HIPS variations

We stock an extensive range of HIPS plastic sheet with different finishes and uses.



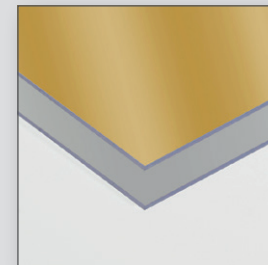
### Recycled HIPS

Recycled HIPS is similar to ABS. We can supply Recycled HIPS in virgin capped which is fully recyclable at the end of its current use. This is an ideal product for Point Of Sale (POS) and graphics as it can be a most cost-effective alternative with the added benefit of recycling at the end of life. Recycled HIPS has the same functionality as HIPS and can be fabricated or flood coated in colour. We supply thermoplastic sheets to a multitude of clients with our product being used in many retail shops to display cosmetics and beauty products.



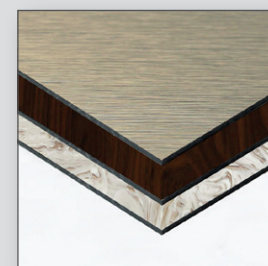
### Conductive Black HIPS

This thermoformable sheet has low surface and volume resistance, making it ideal for electrostatic discharge applications including electrical component handling trays. Its characteristics include good impact resistance, and long lasting conductive properties.



### Mirror HIPS

High Impact Polystyrene Mirror Sheet is a high quality, lightweight material that offers an excellent price-performance ratio and is easy to machine and fabricate. With an impact strength up to seven times that of normal polystyrene, HIPS sheet is commonly used for packaging, thermoforming or vacuum forming, and has excellent dimensional stability. With a protective film covering mirror side, this product is used within applications including bathrooms, signage & point of sale, schools, printing, templating, tray forming and to create portable dance floors.



### Foiled HIPS

We can supply a range of foiled High Impact Polystyrene (HIPS) – a standard HIPS sheet with a choice of foil applied to one face. Our standard designs include brushed aluminium, woven carbon, and chrome mirror to help you increase the visual appearance of your finished product. It is used to imitate other materials such as aluminium but having the properties of HIPS instead. The foiling can be applied to help improve the scratch resistance of the product.

### HIPS Finishes & Colours

 white 360	 black 240	 bright silver 902	 metallic silver 008	 red 966	 dark blue 198	 sky blue 402	 orange 226	
 yellow 702	 green 024	 purple 988	 ivory 530	 opal 160	 mirror gold 169	 mirror silver 168	 gloss/matt	 matt/matt

For sheet sizes please see pg 12.

# PETG














Polyethylene Terephthalate (PET) and with the addition of ethylene glycol (PETG) is a clear sheet produced thermoplastic co-polymers. They differ in terms of properties and therefore the suitability for the applications.

PETG is a rigid sheet, which offers excellent clarity and impact resistance, allowing for a diversity of applications. PETG is easily vacuum formed, printed, bonded and polished. Because of its strength and glass-like clarity, it is often used in the fabrication of Point Of Sale, machinery guards and protective covers where visibility is key. Its sterile properties make it ideal for use within the industrial and chemical process industry.

PETG is fully recyclable and is available as a UV protected sheet making it ideal for outdoor applications such as bus shelters, cycle shelters and external signage.



## PETG applications

 <b>Signs, Displays &amp; POS</b>	 <b>Education</b>	 <b>Machine Components</b>	 <b>Architecture Models</b>	 <b>Automotive Interior &amp; Exterior</b>
 <b>Luggage</b>	 <b>Film &amp; Stage Production</b>	 <b>Medical / Surgical</b>	 <b>Print / Litho Print</b>	 <b>Transport</b>
 <b>Home Appliances</b>	 <b>Shop Fitters / Construction</b>	 <b>Leisure</b>		

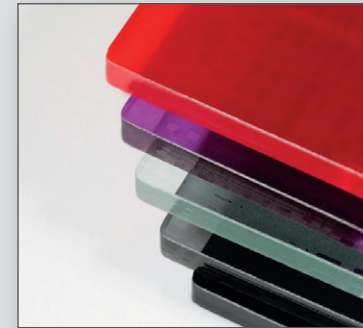
We supply PETG in clear only. Please see pg12 for sheet sizes.

Please note, we do not stock PET in our warehouse, this is available on request in bespoke sizes and quantities. Please call our team to discuss your PET requirements.

## other products

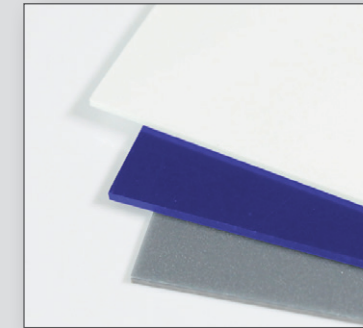
We can also provide a number of other plastic sheet products in various colours, sizes and finishes.

Please see below a variety of other products that we can supply.



### Acrylic Sheet

Transparent plastic, sometimes called acrylic glass, or to use its technical name Polymethyl methacrylate (PMMA) provides an economical alternative to polycarbonate when tensile strength, transparency, polishability and UV tolerance are more important than impact strength.



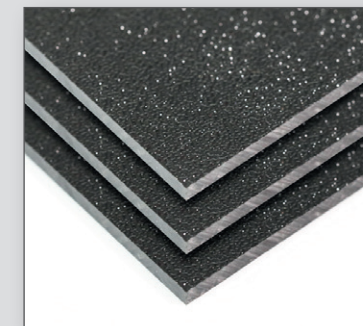
### High-Density Polyethylene (HDPE)

High-Density Polyethylene (HDPE) is part of the polyethene products, it is a thermoplastic polymer with a high strength to density ratio. It is a versatile product with high tensile strength and good chemical and corrosion resistance.



### Polypropylene

Polypropylene (PP) is similar in property to Polyethylene (PE) although slightly harder and more heat resistant. Polypropylene is the world's second most widely produced commodity plastic and used within packaging and vacuum forming due to its versatility.



### Recycled Polycarbonate

Recycled Polycarbonate (RPC) black is made from 100% recycled polycarbonate resin and ideal for thermoforming or fabrication. It is a sheet with a base of regrind material and the same co-extruded top layer as on the virgin equivalent material.



### APET

APET Blister Polyester sheet (PET Film SHEET) also known as Rigid APET film is a recyclable transparent thermoplastic that is widely used in thermoforming, printing, medical face masks, cosmetics, food, electronics, and consumer packaging, including; high-grade clam-shell and blister packaging.

We can supply a wide variety of finishes and colours for all of the above. Please contact our team with your requirements or for more info.



# bespoke services

All recycled, various materials and all in fantastic colours



## Cut to size - any quantity, any material, any size

Cut to size **AND** now cut to shape too! This is perfect for those clients who want to get maximum yield from their plastic sheets; reducing the amount of waste and therefore cost too.

We were the first company in the UK (to the best of our knowledge) to invest in a CCM Premier 168 guillotine with its impressive 168cm cutting width. It's capable of cutting through up to 10 sheets of plastic at a time and hyper-accurate to within 0.5mm. Our CNC beam saw can cut sizes and gauges up to 3 meters by 2 meters and a thickness of 20mm.

## Recycling - Reduce, Reuse, Respect, Recycle

During our whole history, we have been leading the way. Educating people on the best type of plastic for their application, advising on how to maximise yield per sheet to reduce waste.

Most importantly, we are here to help and share our knowledge of what can be done when the plastic product has served its function; it's end of life.

## Colour matching - any colour, no problem

Our colour matching service makes this simple. We can send swatches of red, crimson, magenta, to your address to take the guesswork out of the choice.

We can colour match to literally any colour. Provide us with a Pantone Code, RAL Code or RAL name and we can match your thermoplastic sheet. Simply send us a sample of the colour, the material that is required e.g. HIPS, ABS and we'll do the rest.

## why use eagle

We literally sleep and breathe thermoplastic sheeting. All of the team do. We share a passion that has developed over our 25 year heritage to ensure we offer the best technical advice, the most professional support and fastest response times.



**95% Recyclable stock**



**Bespoke services (cut to size, colours and materials)**



**Same or next day delivery**

## Stock sheet guide

All the above are supplied in differing sheets per pack and are subject to minimum order quantity. We also supply a number of other materials, please contact our team for more information.

	Finish	Colour	Sheet Size (mm)	Sheet Thickness (mm)															
				0.5	0.6	0.75	1	1.4	1.5	1.8	2	2.5	2.8	3	4	5	6	8	
ABS	Pinseal Emboss	Black	1372 x 660				●		●						●				
		Black	2500 x 1250						●		●	●		●	●	●			
	Pinseal Emboss - Recycled	Black	2500 x 1250						●		●			●	●	●			
		Black	2400 x 1400								●			●					
	Smooth	Black	2500 x 1250						●		●			●	●	●	●	●	●
		White	2500 x 1250						●		●			●	●	●	●	●	●
	Glossy Smooth	White	2500 x 1250						●										
	Pinseal Emboss	White	2500 x 1250								●			●	●	●			
		Grey	2500 x 1250								●			●	●	●			
		Red	2500 x 1250								●			●					
Flame Retardant	Black	2500 x 1250										●		●	●	●	●		
Carbon Fibre CT60	Black	2500 x 1250										●		●	●				
Acrylic Capped	Black	2500 x 1250										●	●	●	●	●			
	White	2500 x 1250										●		●	●	●			
	Silver	2500 x 1250										●		●	●				
HIPS	White / Black		1372 x 660			●	●		●		●	●		●	●				
	White / Black	Matt	1372 x 660	●		●	●		●		●			●					
	White	Matt	1220 x 305						●										
	White / Black		1830 x 1220						●		●			●					
	White / Black		1220 x 915				●		●		●			●					
	White / Black		915 x 610				●		●		●			●					
	White / Black		1600 x 1080				●		●		●			●	●				
	White / Black		1080 x 800				●		●		●			●	●				
	White / Black		2000 x 1000						●		●			●	●				
	White / Black		2500 x 1250							●				●	●	●	●		
	White / Black Recycled Gloss		1830 x 1220						●		●								
	Black Recycled Gloss		2500 x 1250					●						●					
	Black Recycled 100%		1830 x 1220							●									
	White Recycled Gloss		2500 x 1250						●		●			●					
	Conductive Black		1372 x 660					●		●				●					
	Colours		1372 x 660					●		●				●					
	Colours		1830 x 1220					●		●				●					
	Colours		1220 x 915					●		●				●					
	Colours (Red & Dark Blue)		1600 x 1080							●				●					
	Mirror (Gold on White)		2440 x 1220							●				●					
Mirror (Silver on White)		2440 x 1220							●				●						
Mirror (Gold on Black)		2440 x 1220							●				●						
Mirror (Silver on White)		2000 x 1000					●		●				●						
Mirror (Gold on White)		2000 x 1000											●						
PETG	Clear		2500 x 1250	●			●		●				●	●	●				
	Clear		2050 x 1250			●	●		●				●	●	●	●			
	Clear		1372 x 660				●		●				●						
	Clear		1025 x 625		●														
APET	Finish	Colour	Sheet Size (mm)	0.5	0.6	0.75	1	1.4	1.5	1.8	2	2.5	2.8	3	4	5	6	8	

All the above are supplied in differing sheets per pack and are subject to minimum order quantity. We also supply a number of other materials, please contact our team for more information.



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