



Innovative Plastic Sheet and Box Maker

Polyreflex Hi-Tech Co., Ltd.

Polyreflex team with over 13 year experiences, specializing in the manufacture of lightweight plastic sheets, one-stop solution for thermoforming, machining, and assembly, dedicated to signs and displays, logistics and packaging, vehicles, and chemical industries. Warmly welcome project purchasing managers, wholesalers, individual consumers and designers to write us your requirements.

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Company profile

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Our products in solutions

710

We employ 710 employees

15

More than 15 years technology know-how

100%

We are there for you with 100% engagement

6

All 6 locations

89,000

Over 89,000 m² production area

38

Sell more than 38 countries and regions

60,000

Every year we produce 60,000 tons Polyreflex materials

1

Everything from 1 source



Polyreflex ABS Sheet

Stronger and Stiffer

High Temperature Resistance

Corrosion Resistance

DESCRIPTION

SPECIFICATIONS

PRODUCT TYPE

TEXTURE OPTIONS

PROCESSING SERVICE

THERMOFORMING SERVICE

FAQS

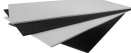
Description

Polyreflex ABS Sheet

named Acrylonitrile-Butadiene-Styrene, is the widely used engineering thermoplastic and is formed by the polymerization of styrene and acrylonitrile on the thermoplastic rubber which is then melt compounded with styrene acrylonitrile.

It is the most widely used polymer, has made all properties of PS, SAN and BS dynamically integrated, which has excellent mechanical properties with harmony of toughness, hardness and rigidity.

Polyreflex provides ABS sheets that suitable for laser cutting, CNC cutting, thermoforming, and we also provide custom machining services. Our ABS products are widely used in automotive interior and exterior, aircraft interior lines, lab equipment, luggage, office accessories, toys, machine parts and rollers, advertising display. Welcome to contact us to get the price of ABS sheet, or the price of customized ABS processed products.



High Rigidity

ABS is considered very strong structurally. This makes it an ideal choice for various applications that need strength and stiff plastic that is resistant to external strength impacts.

Excellent Processability

Polyreflex thermoplastic ABS sheet has a relatively low melting point, which means it can be easily melted and thermoformed into different shapes by vacuum forming.

Chemical Properties

ABS plastic has the characteristics of chemical resistance, thermal resistance, strength, temperature resistance, which allows the fabricator to work in various environmental conditions.

Physical Properties

ABS plastic has excellent performance in terms of structural stability and dimensional stability, abrasion and stain resistance. Good surface brightness and color allow the material to be used directly.

Easy Processing

Cutting, milling, sawing, laser cutting or CNC machining will be processed can be carried out easily with ABS.

Specifications

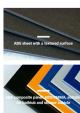
| Thickness | 0.8mm - 2.5mm | 3mm - 25mm | 30mm - 100mm | 105mm - 230mm |
|-----------|---|---|---|---|
| Size | 1000 x 2000mm, 1230 x 2440mm in stock, size can be customized. | 1000 x 2000mm in stock, size can be customized. | 1000 x 1220mm in stock, size can be customized. | 1000 x 2000mm in stock, size can be customized. |
| Density | 1.06 - 1.1 g/cm ³ | | | |
| Surface | Smooth and various texture options | | | |
| Color | Natural, black and white are standard colors, custom colors are available | | | |

Product Type

Polyreflex manufactures and wholesales different types of ABS sheets, including our grade ABS sheets, which are stiffer and flatter to minimize dimensional tolerances. Thermoforming grade ABS sheet, we improve its composition ratio to improve its toughness and make its thermoforming effort better.

In addition, we also have ABS sheets with enhanced performance, such as fire-resistant ABS sheets, heat-resistant ABS sheets, high wear-resistant ABS sheets, etc.

Double color ABS sheet and ABS composite panel are also our hot selling products. Double color ABS sheets are very popular in the advertising industry for making signs. PMMA/ABS composites combine the wear resistance of PMMA with the superior toughness of ABS, plus good dimensional stability, making them ideal for applications requiring precise dimensional control and low warpage.



Texture Options

Polyreflex supplies ABS sheets in colors and textures specified by customers. If none of the texture types below meet your needs, please feel free to contact us for custom textures.



Texture P8001



Texture P8002



Texture P8003



Texture P8004



Texture P8005



Texture P8006



Texture P8007



Texture P8008

Processing Service



25mm-50mm ABS board for CNC machining



ABS mechanical parts



ABS spare parts for industrial use



20mm-30mm ABS sheet for vacuum thermoforming

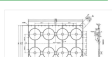


2.5mm-3mm ABS sheet vacuum blower into luggage



ABS shallow tray / plate

Thermoforming Service



Polyreflex provides thermoforming service



Service drawings and we make the mould



Thermoforming your customized ABS products



Heat to soften ABS sheet



Blowing of ABS sheet



Vacuum to suck air between the ABS and mould

The Use of ABS Sheet

Automotive Interior And Exterior

ABS sheet is lighter than other plastics, vehicles using ABS can reduce vehicle weight by 12%, which can be more fuel efficient. Typically, ABS sheets are used for wheel covers, dashboards, trims, and body parts due to their strength, low temperature resistance, and rough surfaces that are not easy to scratch.



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Vehicle Industry

Impact resistance and durability are the characteristics that make ABS sheet ideal for specific applications such as high-speed train carriage, mini-bus, RV, public transit vehicle and other transportation industry needs.



Advertising Display

With the characteristics of thermoplasticity, flexibility and ductility, ABS sheets can be molded into specific shape with varied colors, in addition to being very durable. The vacuum formed ABS products laminated with PMMA or PC material on its surface can be used outdoor advertising displays without fading or scotching.



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Engineering Applications

As the most common thermoplastic engineering plastic, ABS sheet is also used as mechanical gears, bearings, and various knobs.



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Luggage, Office Supplies, Toys

ABS plastic sheet works well in applications where strength and flexibility are both desired, for example luggages. ABS is non-toxic and harmless, it is hence a safe plastic for making kids toys and similar products.



List of Test Reports

- * ABS Sheet RoHS Test Report
- * ABS Resin PA 765 Flammability Test Report

If you would like to discuss your specific product requirements further, please feel free to contact us.

<http://www.polyreflex.com/>

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