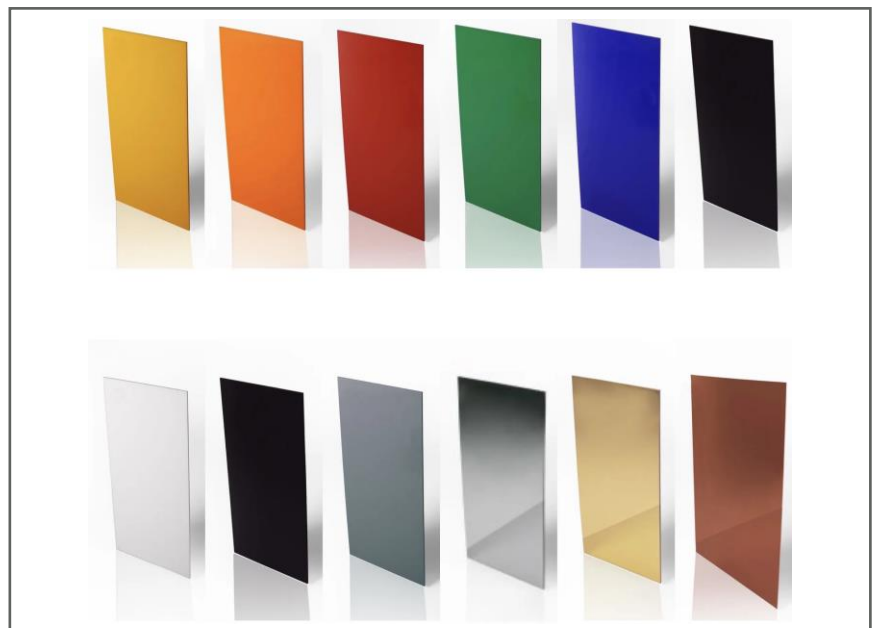


Features

- **Eco-Friendly:** Great for reducing environmental impact compared to virgin material.
- **Fabrication:** Excellent for vacuum forming, screen printing, and CNC routing.
- **Superior Impact Strength:** Modified with polybutadiene rubber, it absorbs significant energy to resist cracking or shattering under physical stress.
- **It retains its precise shape and size even when exposed to fluctuating temperature and humidity.**
- **The material is non-porous and inherently moisture-resistant, making it ideal for environments where sanitation or hygiene is required.**
- **Electrical Insulation:** It has good dielectric strength, which is why it is frequently used for internal electronic housings and protective covers.

RS PRO Recycled High Impact Polystyrene (HIPS) Black Sheet, L:1220MM X W:915MM X T:3MM

RS Stock No: 0814357



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO Recycled High Impact Polystyrene (HIPS) Gloss Sheet
RS PRO Recycled High Impact Polystyrene (HIPS) Gloss sheet is a highly adaptable thermoplastic that balances performance with sustainability. They offer a sustainable, high-performance solution for fabrication and display projects. Manufactured from post-industrial waste, these sheets provide the same mechanical reliability as virgin material while significantly reducing your environmental footprint.

Key Features:

- *Thermoforming Versatility: Known as one of the most "forgiving" materials for vacuum forming, it has a wide heating window and holds complex shapes well.*
- *Excellent Machinability: You can easily cut, drill, saw, or CNC-route these sheets without the material splintering like acrylic might.*
- *Surface Finish & Printing: The smooth surface is ready for high-quality screen printing, digital UV printing, and lithography without extensive preparation.*
- *Bonding Ease: It can be effectively joined using solvent-based adhesives or standard plastic glues to create 3D structures and displays*

Applications:

- *Point-of-Sale (POS) Displays: Ideal for retail shelving, counter-top stands, and promotional dump bins.*
- *Signage & Graphics: A go-to for high-quality screen printing and digital UV printing for indoor signage.*
- *Protective Packaging: Perfect for transit trays, blister packs, and inserts that protect fragile goods.*
- *Electronic Housings: Used for the outer shells and internal covers of consumer electronics and office equipment.*
- *Model Making & Prototyping: Widely used in architectural models, film props, and industrial design prototypes.*

General Specifications

Material	Recycled High Impact Polystyrene Sheet (HIPS)
Form	Sheet
Grade	Recycled HIPS
Finish	Gloss Finish
Length	1220MM
Width	915MM
Thickness	3MM

Mechanical Properties

Density	1.04 – 1.06 g/cm³
Tensile Strength	20 – 25 MPa
Flexural Modulus	1.7 – 2.3 GPa
Heat Deflection Temperature	75°C – 80°C
Vicat Softening Point	90°C – 97°C

Sustainable Benefits

- **100% Recyclable:** It carries the **Resin Identification Code #6** and can be reprocessed multiple times into new sheets without significant loss of mechanical integrity.
- **Lower Carbon Footprint:** Manufacturing recycled HIPS can use up to **70% less energy** and results in roughly **75% fewer CO2 emissions** compared to virgin production.
- **Waste Diversion:** These sheets are often made from post-industrial waste (like old appliance liners), preventing high-quality plastic from reaching landfills.

Similar Products

RS Code	Colour	Thickness	Length
0814355	GLOSS	1.5MM	1220MM
0814356	GLOSS	1.5MM	1830MM
0814362	GLOSS	1.5MM	2000MM
0814363	GLOSS	1.5MM	2500MM
0814364	GLOSS	2MM	1220MM
0814365	GLOSS	2MM	1830MM
0814366	GLOSS	2MM	2000MM
0814367	GLOSS	2MM	2500MM
0814368	GLOSS	3MM	1220MM
0814369	GLOSS	3MM	1830MM
0814370	GLOSS	3MM	2000MM

Plastic Sheets



0814371	GLOSS	3MM	2500MM
0814372	WHITE	1.5MM	1220MM
0814373	WHITE	1.5MM	1830MM
0814374	WHITE	1.5MM	2000MM
0814375	WHITE	1.5MM	2500MM
0814377	WHITE	2MM	1220MM
0814378	WHITE	2MM	1830MM
0814379	WHITE	2MM	2000MM
0814380	WHITE	2MM	2500MM
0814381	WHITE	3MM	1220MM
0814383	WHITE	3MM	1830MM
0814384	WHITE	3MM	2000MM
0814385	WHITE	3MM	2500MM
0814386	BLACK	1.5MM	1220MM
0814387	BLACK	1.5MM	1830MM
0814388	BLACK	1.5MM	2000MM
0814389	BLACK	1.5MM	2500MM
0814390	BLACK	2MM	1220MM
0814391	BLACK	2MM	1830MM
0814392	BLACK	2MM	2000MM
0814393	BLACK	2MM	2500MM
0814358	BLACK	3MM	1830MM
0814359	BLACK	3MM	2000MM
0814361	BLACK	3MM	2500MM