

Features

- Uses recycled ABS, providing a more sustainable material choice without sacrificing core durability
- **Co-Extruded Semi-Matt Finish:** Features a specialized semi-matt surface co-extruded onto a high-impact base, offering a premium look with high durability
- **High Impact Resistance:** Built on a high-impact ABS base, making it suitable for demanding environments that require toughness
- **Excellent Thermoforming Properties:** Specifically designed for thermoforming with a recommended temperature range of **145°C – 175°C** and low mould shrinkage (0.5% - 0.8%)

RS PRO ABS Black Pinseal Sheet, L:2500MM x W:1250MM X T:5MM

RS Stock No: 0814352



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 ABS Black Pinseal Sheet

RS PRO ABS Black Pinseal Sheet is a high-performance, sustainable thermoplastic sheet engineered for durability and a premium aesthetic finish. It features a unique co-extruded construction, combining a specialized semi-matt surface layer with a robust, high-impact ABS base. This dual-layer design ensures the material maintains the high structural integrity required for industrial applications while providing a sophisticated, low-glare appearance

Key Features:

- **Balanced Mechanical Strength:** Offers a tensile strength of 22 MPa and a flexural strength of 25 MPa, providing a solid balance of rigidity and flexibility.
- **Versatile Gloss Range:** Capable of achieving a wide range of gloss/matt levels (from 5 to 90 units at 60°) depending on the finish.
- **Standard Safety Rating:** Meets the UL94 HB flammability rating, a common standard for general-purpose plastic parts

Applications:

- **Automotive Interior Trims** (Dashboards and door panels)
- **Consumer Electronic Housings** (PC and router enclosures)
- **Industrial Machine Guards** (Protective covers and panels)
- **Hard-Shell Travel Luggage** (Suitcases and flight cases)
- **Retail Display Stands** (Point-of-sale signage and fixtures)
- **Protective Safety Helmets** (Construction and sports headgear)

General Specifications

Material	Acrylonitrile Butadiene Styrene
Form	Plastic Sheet
Grade	Recycled ABS
Finish	ABS finish onto a high-impact ABS base
Length	2500MM
Width	1250MM
Thickness	5MM

Mechanical Properties

Density	1.07g/cm³
Tensile Strength at Yield	22 MPa
Tensile E Modulus	2200kJ/m²
Flexural Strength	25MPa
Flammability	UL94 HB Rating
Recommended Thermoforming Temperature	145 - 175 °C
Mould Shrinkage	0.5 - 0.8%
Heat Deflection Temperature	85°C
Vicat Softening Point	90°C

Sustainable Benefits

***Reduced Carbon Footprint:** Production of recycled ABS can have up to an **86% lower carbon footprint** compared to its virgin plastic counterparts.*

***Energy Conservation:** Manufacturing products from recycled ABS is significantly less energy-intensive, saving between **35% to 80% of the energy** required to produce virgin material from scratch*

Similar Products

RS Code	Form	Thickness	Length
0814347	Sheet	1.5MM	2500MM
0814349	Sheet	2MM	2500MM
0814350	Sheet	3MM	2500MM
0814351	Sheet	4MM	2500MM
0814353	Sheet	6MM	2500MM