

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:6MM

RS Stock No: 0814353



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	6MM

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
0814352	Sheet	5MM	2500MM