

## 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:4MM

RS Stock No: 0814351



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 | 4MM                                    |

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 |
| 0814352 | Sheet | 5MM       | 2500MM |
| 0814353 | Sheet | 6MM       | 2500MM |