

## Features

- Excellent yield stress and tensile modulus for demanding industrial use.
- Physiologically safe PE-HD suitable for direct food contact.
- Withstands repeated cutting without surface degradation.
- High Scratch Resistance maintains a clean and smooth surface over time.
- Facilitates smooth handling and processing of materials.
- Wide Temperature Range – Performs reliably from -100°C to +80°C.
- Chemical & Wear Resistant – Durable against wear and common industrial chemicals.
- Compliant with Industry Standards – Tested to DIN, ISO, and IEC

## RS PRO HMW Cutting Board - Yellow

**L: 950MM X W:950MM x T:12MM**

RS Stock No.: 0714415



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

*The RS PRO HMW Cutting Board is manufactured from high-quality PE-HD (Polyethylene High Density) material, ensuring durability and reliability for demanding industrial and food processing environments. Designed for superior cutting performance, this board offers excellent wear resistance, high scratch resistance, and outstanding sliding properties. Its physiologically safe composition makes it ideal for food contact applications.*

### Key Features

- *Good Mechanical Properties: High yield stress and tensile strength for robust performance.*
- *Physiologically Safe: Suitable for food industry applications.*
- *Excellent Wear & Cutting Resistance: Prolonged service life under heavy use.*
- *High Scratch Resistance: Maintains surface integrity over time.*
- *Good Sliding Properties: Smooth handling during processing.*

### Typical Applications

- *Food Industry: Meat, fish, poultry processing; bakery and confectionery.*
- *Mechanical Engineering: Components requiring high wear resistance.*
- *Building Industry: Durable cutting and working surfaces.*

## General Specifications

|                     |                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Material            | Polyethylene                                                                                                                    |
| Form                | Sheet                                                                                                                           |
| Grade               | Polystone D                                                                                                                     |
| Length              | 950mm                                                                                                                           |
| Width               | 950mm                                                                                                                           |
| Thickness           | 12mm                                                                                                                            |
| Colour              | Yellow                                                                                                                          |
| Melting Temperature | 130°C – 135°C                                                                                                                   |
| Applications        | Bakery and Confectionery, Mechanical Engineering Industry, Food Industry, Building Industry, Meat, Fish and Poultry Processing. |

## Mechanical Specifications

|                                  |                                                          |
|----------------------------------|----------------------------------------------------------|
| Density                          | >0.95 g/cm <sup>3</sup>                                  |
| Water Absorption                 | <0.01%                                                   |
| Flammability (3 mm / 6 mm)       | HB                                                       |
| Yield Stress                     | >27MPa                                                   |
| Elongation at Break              | >50%                                                     |
| Tensile Modulus                  | >1200MPa                                                 |
| Shore Hardness                   | 65 Scale D                                               |
| Melting Temperature              | 130–135°C                                                |
| Thermal Conductivity             | 0.40 W/(m·K)                                             |
| Thermal Capacity                 | 1.90 kJ/(kg·K)                                           |
| Service Temperature (Long Term)  | -100 to 80°C                                             |
| Service Temperature (Short Term) | 80°C                                                     |
| Vicat Softening Temperature      | 79°C                                                     |
| Electrical Properties            | Dielectric constant: 2.3; Dielectric strength: >40 kV/mm |

## Approvals

|                           |                                |
|---------------------------|--------------------------------|
| Compliance/Certifications | EU 10/2011 – DIN 51097 Class C |
|---------------------------|--------------------------------|

## Similar Products

| RS Code | Form  | Size (mm) | Thickness/Colour          |
|---------|-------|-----------|---------------------------|
| SMC0066 | Sheet | 300 x 300 | 12mm Blue                 |
| SMC0070 | Sheet | 475 x 475 | 12mm White                |
| SMC0077 | Sheet | 950 x 950 | 12mm Red                  |
| SMC0069 | Sheet | 300 x 300 | 12mm Yellow               |
| SMC0073 | Sheet | 475 x 475 | 12mm Green                |
| SMC0082 | Sheet | 300 x 300 | 12mm Grey / Black Marble  |
| SMC0086 | Sheet | 475 x 475 | 12mm White / Black Marble |
| SMC0084 | Sheet | 950 x 950 | 12mm Grey / Black Marble  |