

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 specifications.

RS PRO HMW Cutting Board, Blue, L: 475MM X W: 475MM X T: 12MM

RS Stock No.: 0714405



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	475mm
Width	475mm
Thickness	12mm
Colour	Blue
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 ³
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
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Similar Products

RS Code	Form	Size (mm)	Thickness/Colour
SMC0067	Sheet	300 x 300	12mm Green
SMC0074	Sheet	475 x 475	12mm Brown
SMC0077	Sheet	950 x 950	12mm Red
SMC0064	Sheet	300 x 300	12mm White
SMC0075	Sheet	475 x 475	12mm Yellow
SMC0082	Sheet	300 x 300	12mm White / Black Marble
SMC0086	Sheet	475 x 475	12mm White / Black Marble
SMC0084	Sheet	950 x 950	12mm Grey / Black Marble