

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 with Juice Groove, Brown, L: 475mm x W: 475mm x T: 12mm

RS Stock No.: 0714457



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 HMW Cutting Board with Juice Groove

The RS PRO HMW Cutting Board with Juice Groove 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	Brown
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
Density	>0.95 g/cm ³

Approvals

Compliance/Certifications	EU 10/2011 – DIN 51097 Class C
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Similar Products

Stock No.	Form	Length (mm)	Width (mm)	Thickness (mm)	Colour
0714447	Sheet	300	300	12	White
0714448	Sheet	300	300	12	Red
0714449	Sheet	300	300	12	Blue
0714450	Sheet	300	300	12	Green
0714451	Sheet	300	300	12	Brown
0714452	Sheet	300	300	12	Yellow
0714453	Sheet	475	475	12	White
0714454	Sheet	475	475	12	Red
0714455	Sheet	475	475	12	Blue
0714456	Sheet	475	475	12	Green
0714458	Sheet	475	475	12	Yellow

0714532	Sheet	950	950	12	White
0714533	Sheet	950	950	12	Red
0714534	Sheet	950	950	12	Blue
0714536	Sheet	950	950	12	Green
0714537	Sheet	950	950	12	Brown
0714538	Sheet	950	950	12	Yellow
0714539	Sheet	300	300	12	Grey/ Black Marble
0714540	Sheet	475	475	12	Grey/ Black Marble
0714542	Sheet	950	950	12	Grey/ Black Marble
0714543	Sheet	300	300	12	White/ Black Marble
0714544	Sheet	475	475	12	White/ Black Marble
0714545	Sheet	950	950	12	White/ Black Marble
0714546	Sheet	300	300	15	White
0714547	Sheet	300	300	15	Red
0714548	Sheet	300	300	15	Blue
0714549	Sheet	300	300	15	Green
0714550	Sheet	300	300	15	Brown
0714551	Sheet	300	300	15	Yellow
0714552	Sheet	475	475	15	White
0714553	Sheet	475	475	15	Red
0714554	Sheet	475	475	15	Blue
0714555	Sheet	475	475	15	Green
0714556	Sheet	475	475	15	Brown
0714558	Sheet	475	475	15	Yellow
0714559	Sheet	950	950	15	White
0714560	Sheet	950	950	15	Red
0714561	Sheet	950	950	15	Blue
0714562	Sheet	950	950	15	Green
0714564	Sheet	950	950	15	Brown
0714565	Sheet	950	950	15	Yellow
0714459	Sheet	300	300	20	White
0714460	Sheet	300	300	20	Red

0714461	Sheet	300	300	20	Blue
0714463	Sheet	300	300	20	Green
0714464	Sheet	300	300	20	Brown
0714465	Sheet	300	300	20	Yellow
0714466	Sheet	475	475	20	White
0714467	Sheet	475	475	20	Red
0714468	Sheet	475	475	20	Blue
0714469	Sheet	475	475	20	Green
0714470	Sheet	475	475	20	Brown
0714471	Sheet	475	475	20	Yellow
0714472	Sheet	950	950	20	White
0714473	Sheet	950	950	20	Red
0714474	Sheet	950	950	20	Blue
0714475	Sheet	950	950	20	Green
0714476	Sheet	950	950	20	Brown
0714477	Sheet	950	950	20	Yellow
0714479	Sheet	300	300	25	White
0714480	Sheet	300	300	25	Red
0714481	Sheet	300	300	25	Blue
0714482	Sheet	300	300	25	Green
0714483	Sheet	300	300	25	Brown
0714485	Sheet	300	300	25	Yellow
0714486	Sheet	475	475	25	White
0714487	Sheet	475	475	25	Red
0714488	Sheet	475	475	25	Blue
0714489	Sheet	475	475	25	Green
0714491	Sheet	475	475	25	Brown
0714492	Sheet	475	475	25	Yellow
0714493	Sheet	950	950	25	White
0714494	Sheet	950	950	25	Red
0714495	Sheet	950	950	25	Blue
0714496	Sheet	950	950	25	Green

0714497	Sheet	950	950	25	Brown
0714498	Sheet	950	950	25	Yellow