

Milicore family – Engineered for extreme performance.

# NOPAPLANK<sup>®</sup> MILICORE

POLYETHYLENE FOAM FOR HIGH-PERFORMANCE PROTECTIVE PACKAGING



Nopaplank<sup>®</sup> Milicore by Abriso Jiffy is a closed-cell polyethylene foam developed for demanding protection and packaging applications.

Lightweight, durable, and engineered for excellence, it safeguards sensitive equipment, high-value electronics, and critical components – even under harsh conditions.

Thanks to its superior shock absorption, dimensional stability, and moisture resistance, Nopaplank<sup>®</sup> Milicore is trusted for safe transport, long-term storage, and high-stakes deployment.

## KEY FEATURES

- High-purity, military-grade polyethylene foam
- Exceptional vibration and shock damping
- Combined ESD-safe and flame-retardant performance
- Outstanding dimensional stability under sustained load
- Resistant to water, chemicals, and thermal cycling
- Reusable, 100% recyclable
- Non-abrasive surface, precision-convertible

## APPLICATIONS

- Protective cases and inserts
- Secure storage systems
- Electronic component cushioning
- High-end transport crates
- Custom interior layout for sensitive gear

## TECHNICAL EXCELLENCE & TESTED PERFORMANCE

Nopaplank<sup>®</sup> Milicore is engineered to exceed rigorous requirements for protection, reliability, and safety:

- **Residual gas content < 10% of LEL**  
Our optimized blow-agent evacuation process ensures residual gas content remains below critical safety thresholds for enclosed packaging applications.
- **Compression-creep loss < 10% over 1.000 hours**  
Maintains cushioning performance under prolonged static load for reliable, long-term protection.
- **Compression & tensile strength**  
High resistance under stress, both in machine and transverse directions.
- **Thermal & moisture stability**  
Consistent performance across wide temperature ranges. Minimal water uptake.
- **Surface resistance & ESD protection**  
Antistatic performance supports the safe packaging of electronics and sensitive devices.
- **Flame-retardant properties**

## LET'S TALK PROTECTION

Contact us to explore your specific application, request test data, or evaluate a sample.

[defense@abrisojiffy.com](mailto:defense@abrisojiffy.com)

[www.abrisojiffy.com/defense](http://www.abrisojiffy.com/defense)



WE CREATE. WE SUSTAIN. WE PROTECT.

## EXTENSIVE PRODUCT RANGE

Nopaplank® Milicore belongs to the Milicore® family of advanced foam materials. Each member of the range is designed to meet specialized packaging demands. Though this leaflet focuses on our PE variant, we can also offer PP and PS foam options for tailor-made solutions.



## BENEFITS AT A GLANCE

- Reliable load-bearing and creep resistance
- Rapid recovery after repeated impact
- Stable performance across environmental extremes
- Anti-static and flame-retardant properties

PHYSICAL PROPERTIES	TEST METHOD	CONDITIONS	UNIT	VALUE
Density	ASTM D3575 W		kg/m <sup>3</sup>	35
Standard thickness	EN ISO 1923		mm	100*
Standard width	EN ISO 1923		mm	1200
Standard length	EN ISO 1923		mm	2400
Compression strength	ASTM D3575 D EN ISO 3386-1	25% 50%	kPa (psi)	70 (10) 125 (18)
Compression set	ASTM D3575 B EN ISO 1856	50% 25%	%	< 20 < 10
Compressive creep	ASTM D3575 BB ISO 7850	2,5 psi / 1000 h	%	< 10
Tensile strength	ASTM D3575 T EN ISO 1798	Machine direction Transverse direction	kPa (psi)	195 (28) 145 (21)
Tensile elongation	ASTM D3575 T EN ISO 1798	Machine direction Transverse direction	%	> 60 > 40
Cell size	ASTM D3576		mm	< 1,5
Isobutane content	Gas chromatography		% LEL	< 10
Water absorption	ASTM D3575 L ISO 2896	23°C / 24h	% Vol.	< 3
Thermal stability	ASTM D3575 S	70°C / 24h	%	< 2,0
Surface resistance	EN IEC 61340-2-3		ohms	< 10 <sup>11</sup>
Fire response	EN 13501-1 DIN 4102-1		class	E B2
Thermal conductivity	ASTM C518 ISO 8301		W/mK	< 0,053

\*without skin

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