



Kapton shown on Soundfoam HTC polyimide foam.

PRODUCT DESCRIPTION

Kapton® is a type of polyimide film that can be laminated to other materials, creating custom composites to suit a variety of applications and performance requirements – often required in the aerospace industry.

Kapton® is certified to meet the requirements of ASTM D-5213-07, standard specification for polymeric resin film for electrical insulation and dielectric applications.

For specific application requirements or tolerances and performance data, contact Soundcoat.

TYPICAL APPLICATIONS

- Launch vehicles, satellites, engine power systems, planes, and helicopters

PHYSICAL PROPERTIES

Material Type	HN polyimide film
Color	Amber
TENSILE STRENGTH, PSI (MPA) AT 24°C (73°F). MACHINE DIRECTION (MD) AND TRANSVERSE DIRECTION (TD), MIN.	
0.50 (12.7)	20,000 (138)
1.00 (25.4)	24,000 (165)
2.00 (50.8)	24,000 (165)
3.00 (76.2)	24,000 (165)
5.00 (127)	24,000 (165)
Elongation, %, MD and TD, min.	
0.50 (12.7)	35
1.00 (25.4)	40
2.00 (50.8)	45
3.00 (76.2)	50
5.00 (127)	50
Shrinkage, %, MD and TD, min.	
0.50 (12.7)	-
1.00 (25.4)	0.3
2.00 (50.8)	0.35
3.00 (76.2)	0.35
5.00 (127)	0.35
Moisture Absorption, %, max.	
0.50 (12.7)	4.0
1.00 (25.4)	4.0
2.00 (50.8)	4.0
3.00 (76.2)	4.0
5.00 (127)	4.0

MARKETS



THE SOUNDCOAT PROMISE

We have one goal: to enhance the customer experience by providing world-class products manufactured under ISO 9001:2015 and AS9100:2016 standards in one of our modern manufacturing facilities strategically located on each coast.

All materials are tested and qualified in our acoustics and materials testing laboratory to ensure consistent quality and performance.

Soundcoat products are supplied, tested, and produced to your specifications.

Visit soundcoat.com to see our complete line of absorption, barrier, damping, sealing, and thermal materials.

For further information on meeting specific requirements and for optimum product configuration, contact our Customer Service Group at 1-800-394-8913.

The information contained herein is based on laboratory test data developed by or for Soundcoat and is believed to be reliable, but its accuracy or completeness is not guaranteed. The buyer must test this product to determine its suitability for his/her specific application before use. Only use a Soundcoat product after thoroughly consulting instructions on the data sheet for the specific product. SOUNDCOAT DISCLAIMS ANY RESPONSIBILITY FOR 1) WARRANTIES OF FITNESS AND PURPOSE, 2) VERBAL RECOMMENDATIONS, 3) CONSEQUENTIAL DAMAGES FROM USE, AND 4) VIOLATION OF ANY PATENTS OR TRADEMARKS HELD BY OTHERS.

Kapton®, Nomex® and Tedlar® are registered trade names of Dupont Corporation.

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