

# HIGH-PERFORMANCE HEK KAPTON® TAPE WHITE KAPTON

Technical Data Sheet



Fralock® HEK (High Emissivity Kapton®) high-performance tape is manufactured with DuPont™ Kapton® WS film (white Kapton®), and brings a new capability to a wide range of applications. Its all-polyimide base is a bright white color with high optical density, high temperature stability, high modulus, and high glass transition temperature, with a low coefficient of thermal expansion and very low and moisture uptake properties. HEK tape is available with your choice of adhesives to best fit your requirements.

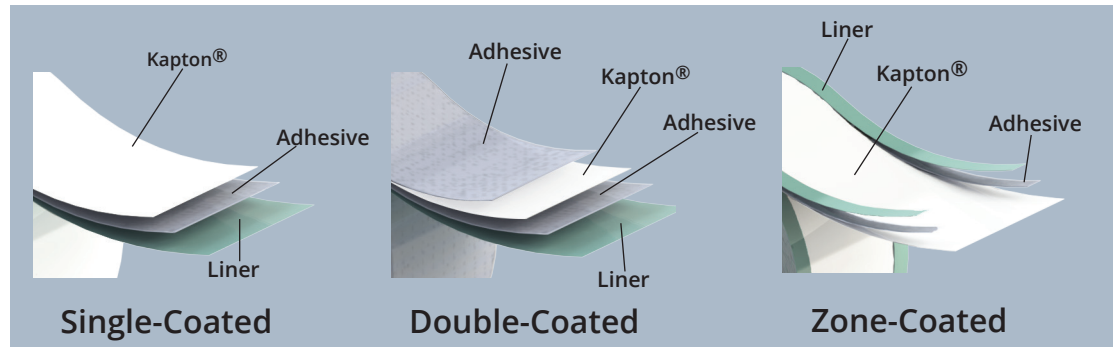
Fralock® offers complex precision laminating, adhesive coating, and a variety of cutting services for high-performance tapes. Our application engineers are available to assist with design and production of custom products that fulfill your performance requirements.

With manufacturing in the U.S.A., Fralock® offers product design, development, prototyping, converting, manufacturing, and automated placement services with ISO 9001, AS9100 and ISO 13485 Registered Quality Management system. ITAR compliant.

## Applications

- Electrical insulation
- Mechanical/structural connections
- Flexible circuit bonding
- Thermal management
- Masking and protection
- Gaskets and seals

## ADHESIVE CONFIGURATIONS



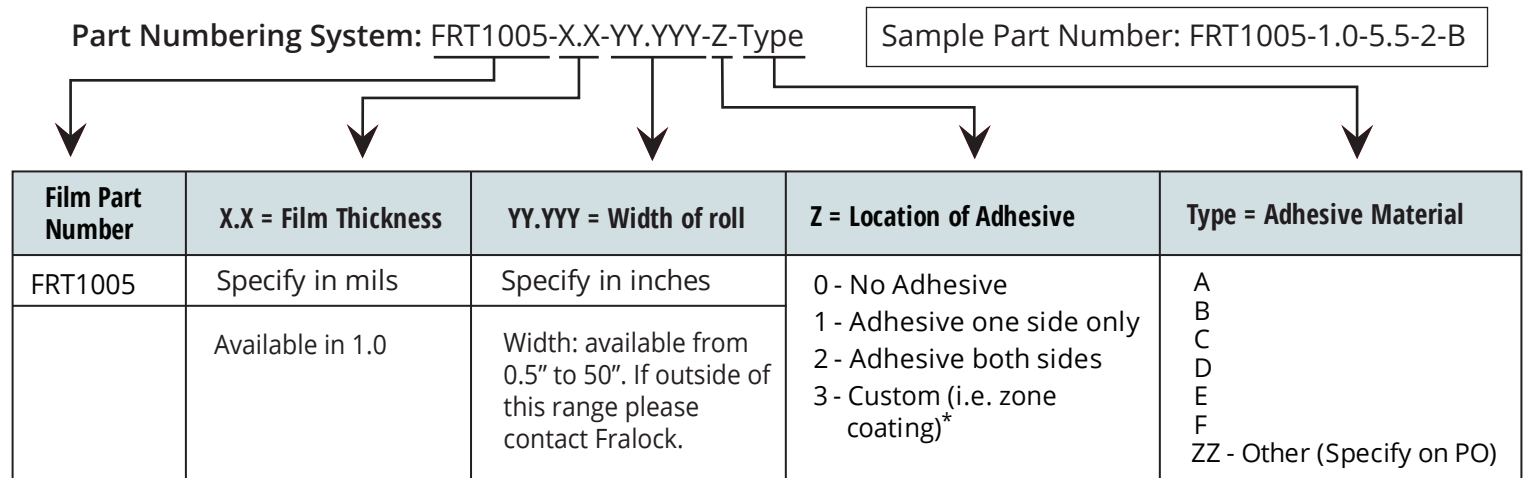
## Film Properties (Kapton® WS)

Thickness (mils)	1 mil
Tensile Modulus (GPa)	6.7
Tensile Strength (MPa)	193
Tensile Elongation (%)	38
Glass Transition Temp: Tg (°C)	337
CTE (ppm/°C, 50-250°C)	11.8
60° Gloss	12.8
L*A*B*	95.2 / -2.5 / 3.6
Opacity	0.69

## Adhesives - Pressure-Sensitive

Adhesive ID #	A	B	C	D	E	F
Temp range Min/Max	-40°F (-40°C) to 450°F (232°C)	-40°F (-40°C) to 450°F (232°C)	-40°F (-40°C) to 500 °F (260 °C)	-40°F (40°C) to 203°F (95°C)	Up to 400°F (204°C)	-100°F (-38°C) to 500°F (260°C)
Adhesive Material	Acrylic	Acrylic	Acrylic	Acrylic	Silicone	Silicone
Adhesive Thickness	2 mil	1 mil	2 mil	2 mil	4 mi	2 mil
Key Features	Exceptional shear values Low outgassing	Exceptional shear values Low outgassing	UV and solvent resistant	Anisotropically electrically conductive Good adhesion to common PCB substrates	Low surface energy Isotropically electrically conductive Performs at high temperatures	Electrically Conductive in the Z axis Excellent bond strength Chemically resistant Temperature extremes

## Ordering Information



Standard length is 100 ft. roll. Custom lengths available.

\*Custom zone coating: Please specify areas for coating

*Contact us for more information on Kapton® Tapes and other related polyimide products.*

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Warranty: User is responsible for determining whether the product is fit for a particular purpose and suitable for user's application. Limitation of Liability: Fralock® will not be liable for any loss or damage arising from the product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. The above values are averaged values and should not be used in writing specifications.