

CryoTape® AIF

Introduction

CryoTape® series from East Far are a family of cryogenic-temperature, lightweight adhesive tapes engineered to secure and bond CryoMLI® series insulation materials in cryogenic environments, including liquid helium (4K) applications.

Drawing on our thermal control expertise and manufacturing excellence, combined with extensive field experience in aerospace, transport cryogenic vessels, and medical applications, East Far delivers customized solutions to ensure optimal performance of your equipment under the most demanding conditions.

East Far offers a variety of CryoTape® products, including Aluminum Foil Tape (CryoTape® AIF), Aluminum Coated PET Tape (CryoTape® ACP), Fiberglass Tape (CryoTape® FiG), Polyimide Tape (CryoTape® PI), and Mylar Aluminum Foil Tape (CryoTape® MAP).



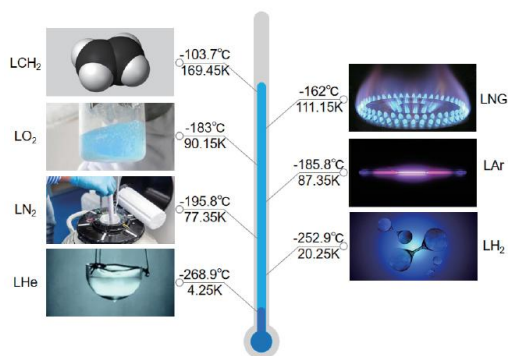
CryoTape® AIF Structure



Aluminum Foil
Modified Acrylic Adhesive (Cryo)

Application

Cryogenic Liquids



Aerospace & Rocket



Application Market

- Aerospace, aircraft and rocket parts
- Cryogenic vessels and transfer lines
- Liquid helium applications
- Superconducting cables
- Nuclear fusion cryogenic modules

CryoTape® AIF Properties

- High quality material can meet cryogenic temperature (Liquid Helium compatible)
- High temperature resistance
- Solvent resistance
- Aging resistance
- Excellent chemical stability
- Stable performance

CryoTape® AIF Structure: Aluminum Foil / Modified Acrylic Adhesive (Cryo)



CryoTape® AIF Technical Data

Material Properties	Technical Data
Structure	Aluminum Foil / Modified Acrylic Adhesive (Cryo)
Substrate Thickness(mm)	0.08 ±0.005
Adhesive Thickness(mm)	0.025 ±0.005
Total Thickness(mm)	0.105 ±0.01
Length(m)	50
Width(mm)	10/15/20/25/30/50
Custom Width	Available (MOQ 2,000 rolls)
Adhesive	Modified Acrylic (Cryo)
Tensile Strength(N/25mm)	95
Application Temperature Range	4K(-269°C) - 573K(300°C)
Recommended Constant Temp	Within 300°C
Initial Tack (Rolling Ball)	Steel Ball No. 14-16
Instantaneous Initial Tack	>8.8 N/25mm (>900g)
Low-Temp Performance (-30°C / -196°C)	No embrittlement, no delamination; meets cryogenic engineering requirements
Field proven in Liquid Helium (4K)	Confirmed reliable performance in actual LHe applications

Please contact East Far sales team to discuss additional enhancement requirements at sale@eastfarcorp.com

Recommendation: To mitigate detachment risk from vibration during cryogenic tank transportation, it is recommended to wrap CryoTape® FiG as the outermost layer for additional mechanical protection.

CryoTape® ACP

Introduction

CryoTape® series from East Far are a family of cryogenic-temperature, lightweight adhesive tapes engineered to secure and bond CryoMLI® series insulation materials in cryogenic environments, including liquid helium (4K) applications.

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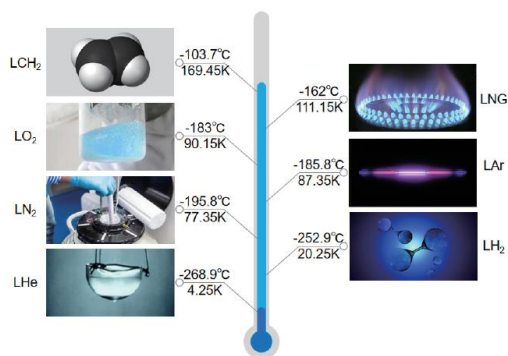
CryoTape® ACP Structure



Aluminum Coated PET
Modified Acrylic Adhesive (Cryo)

Application

Cryogenic Liquids



Aerospace & Rocket



Application Market

- Aerospace, aircraft and rocket parts
- Cryogenic vessels and transfer lines
- Liquid helium applications
- Superconducting cables
- Nuclear fusion cryogenic modules

CryoTape® ACP Properties

- High quality material can meet cryogenic temperature (Liquid Helium compatible)
- Solvent resistance
- Aging resistance
- Excellent chemical stability
- Stable performance

CryoTape® ACP Structure: Aluminum Coated PET / Modified Acrylic Adhesive (Cryo)



CryoTape® ACP Technical Data

Material Properties	Technical Data
Structure	Aluminum Coated PET / Modified Acrylic Adhesive (Cryo)
Substrate Thickness(mm)	0.05 ±0.005
Adhesive Thickness(mm)	0.03 ±0.005
Total Thickness(mm)	0.08 ±0.01
Length(m)	50
Width(mm)	10/15/20/25/30/50
Custom Width	Available (MOQ 2,000 rolls)
Adhesive	Modified Acrylic (Cryo)
Tensile Strength(N/25mm)	140
Application Temperature Range	4K(-269°C) - 393K(120°C) continuous / 423K(150°C) short-term
Initial Tack (Rolling Ball)	Steel Ball No. 14-16
Instantaneous Initial Tack	>8.8 N/25mm (>900g)
Low-Temp Performance (-30°C / -196°C)	No embrittlement, no delamination; meets cryogenic engineering requirements
Field proven in Liquid Helium (4K)	Confirmed reliable performance in actual LHe applications

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CryoTape® FiG

Introduction

CryoTape® series from East Far are a family of cryogenic-temperature, lightweight adhesive tapes engineered to secure and bond CryoMLI® series insulation materials in cryogenic environments, including liquid helium (4K) applications.

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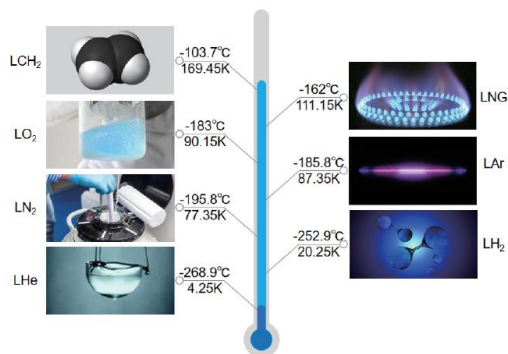


CryoTape® FiG Structure

Fiberglass Tape

Application

Cryogenic Liquids



Aerospace & Rocket



Application Market

- Aerospace, aircraft and rocket parts
- Cryogenic vessels and transfer lines
- Liquid helium applications
- Superconducting cables
- Nuclear fusion cryogenic modules

CryoTape® FiG Properties

- Fire resistant, flame barrier
- High quality material can meet cryogenic temperature (Liquid Helium compatible)
- High temperature resistance
- Solvent resistance
- Aging resistance
- Excellent chemical stability
- Stable performance

CryoTape® FiG Structure: Fiberglass Tape



CryoTape® FiG Technical Data

Material Properties	Technical Data
Structure	Fiberglass Tape
Total Thickness(mm)	0.2 ±0.05
Length(m)	50
Width(mm)	10/15/20/25/30/50
Custom Width	Available (MOQ 2,000 rolls)
Application Temperature Range	4K(-269°C) - 533K(260°C)

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CryoTape® PI

Introduction

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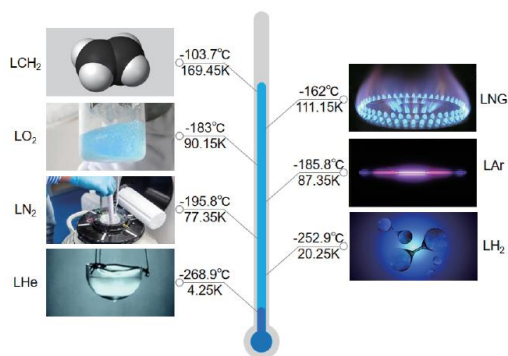


CryoTape® PI Structure



Application

Cryogenic Liquids



Aerospace & Rocket



Application Market

- Aerospace, aircraft and rocket parts
- Cryogenic vessels and transfer lines
- Liquid helium applications
- Superconducting cables
- Nuclear fusion cryogenic modules

CryoTape® PI Properties

- High quality material can meet cryogenic temperature (Liquid Helium compatible)
- High temperature resistance
- Solvent resistance
- Aging resistance
- Chemical resistance
- Stable performance

CryoTape® PI Structure: Polyimide / Silica Gel



CryoTape® PI Technical Data

Material Properties	Technical Data
Structure	Polyimide / Silica Gel
Substrate Thickness(mm)	0.025 ±0.005
Adhesive Thickness(mm)	0.025 ±0.005
Total Thickness(mm)	0.05 ±0.01
Length(m)	33
Width(mm)	10/15/20/25/30/50
Custom Width	Available (MOQ 2,000 rolls)
Adhesive	Silica Gel
Breakdown Voltage(KV)	3.5
Tensile Strength(N/25mm)	140
Elongation(%)	50-55
Max Temperature(1H.°C)	Instant Max 400°C / 280-300°C for long term
Application Temperature Range	4K(-269°C) - 573K(300°C)

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CryoTape® MAP

Introduction

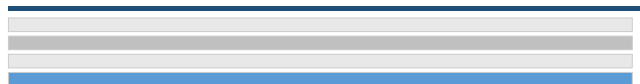
CryoTape® series from East Far are a family of cryogenic-temperature, lightweight adhesive tapes engineered to secure and bond CryoMLI® series insulation materials in cryogenic environments, including liquid helium (4K) applications.

Drawing on our thermal control expertise and manufacturing excellence, combined with extensive field experience in aerospace, transport cryogenic vessels, and medical applications, East Far delivers customized solutions to ensure optimal performance of your equipment under the most demanding conditions.

East Far offers a variety of CryoTape® products, including Aluminum Foil Tape (CryoTape® AIF), Aluminum Coated PET Tape (CryoTape® ACP), Fiberglass Tape (CryoTape® FiG), Polyimide Tape (CryoTape® PI), and Mylar Aluminum Foil Tape (CryoTape® MAP).



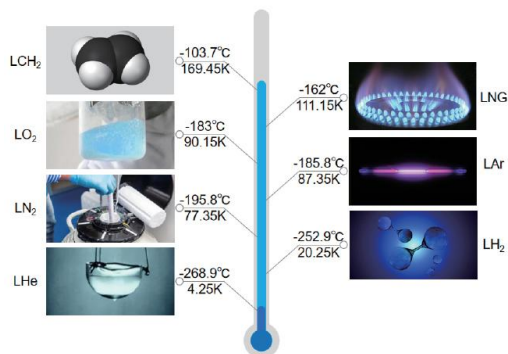
CryoTape® MAP Structure



PET Film
Aluminum Foil
PET Film
Modified Acrylic Adhesive (Cryo)

Application

Cryogenic Liquids



Aerospace & Rocket



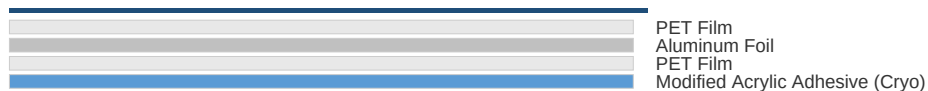
Application Market

- Aerospace, aircraft and rocket parts
- Cryogenic vessels and transfer lines
- LNG / LH₂ tanks
- ISO containers / Storage tanks
- Liquid helium applications
- Superconducting cables
- Nuclear fusion cryogenic modules

CryoTape® MAP Properties

- High quality material for cryogenic applications (Liquid Helium compatible)
- Strong adhesion
- Excellent conformability
- Easy to wrap, shape or cut
- Aging resistance
- Excellent chemical stability
- Stable performance

CryoTape® MAP Structure: PET Film / Aluminum Foil / PET Film / Modified Acrylic Adhesive (Cryo)



CryoTape® MAP Technical Data

Material Properties	Technical Data
Structure	PET Film / Aluminum Foil / PET Film / Modified Acrylic Adhesive (Cryo)
Substrate	PET Film / Aluminum Foil / PET Film
Total Thickness(mm)	0.078
Length(m)	50
Width(mm)	10/15/20/25/30/50
Custom Width	Available (MOQ 2,000 rolls)
Adhesive	Modified Acrylic (Cryo)
Adhesion(KG/25mm)	≥1.0
Color	Silver-white
Holding Power(hr)	≥48
Application Temperature Range	4K(-269°C) - 393K(120°C) continuous / 423K(150°C) short-term
Initial Tack (Rolling Ball)	Steel Ball No. 14-16
Instantaneous Initial Tack	>8.8 N/25mm (>900g)
Low-Temp Performance (-30°C / -196°C)	No embrittlement, no delamination; meets cryogenic engineering requirements
Field proven in Liquid Helium (4K)	Confirmed reliable performance in actual LHe applications

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Recommendation: To mitigate detachment risk from vibration during cryogenic tank transportation, it is recommended to wrap CryoTape® FiG as the outermost layer for additional mechanical protection.

CryoFiG Fabric

Introduction

CryoFiG Fabric from East Far is a specialized fiberglass accessory designed to secure and reinforce CryoMLI® series insulation materials in cryogenic environments, including liquid helium (4K) applications.

Drawing on our thermal control expertise and manufacturing excellence, combined with extensive field experience in aerospace, transport cryogenic vessels, and medical applications, East Far delivers customized solutions to ensure optimal performance of your equipment under the most demanding conditions.

East Far offers CryoFiG Fabric widely used in cryogenic liquid vessels and pipeline systems.

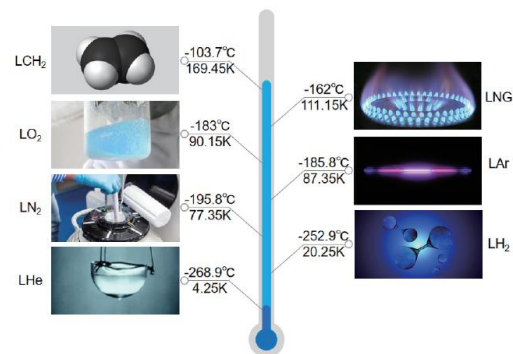


CryoFiG Fabric Structure

Fiberglass Fabric (Cryo)

Application

Cryogenic Liquids



Aerospace & Rocket



Application Market

- Cryogenic vessels and transfer lines
- Liquid helium applications
- Superconducting cables
- Nuclear fusion cryogenic modules

CryoFiG Fabric Properties

- High quality material can meet cryogenic temperature (Liquid Helium compatible)
- High temperature resistance
- Solvent resistance
- Aging resistance
- Chemical resistance
- Stable performance

CryoFiG Fabric Structure: Fiberglass Fabric (Cryo)



CryoFiG Fabric Technical Data

Material Properties	Technical Data
Structure	Fiberglass Fabric (Cryo)
Total Thickness(mm)	0.1 ±0.05
Weight(g/m ²)	110 ±10
Length(m)	250
Width(mm)	1050
Application Temperature Range	4K(-269°C) - 533K(260°C)

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