

TempShield™ Technical Information

Single Bubble Metalized Both Sides

TempShield™ Insulation consists of two outer layers of metalized polyester. Each layer is bonded to a tough layer of polyethylene for strength. One inner layer of insulating bubbles resist conductive heat flow.

Technical Data:

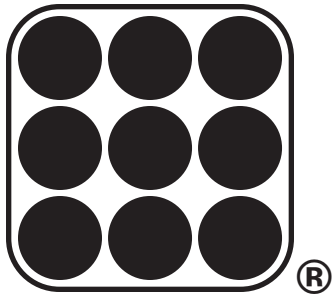
Temperature Range:	-60 degrees to +180 degrees F
Nominal Thickness:	3/16 inch (.188)
Weight:	.53 oz./sq. ft.
Flame Spread Index (ASTM E 84):	Less than 25
Smoke Developed Index (ASTM E 84):	Less than 50
Fire Rating:	Class A/Class 1
Linear Shrinkage:	None
Reflectance (IR):	94% + Metal Side
Fungi Resistance:	No Growth
Emittance:	Less than 0.06 Metal Side
Pliability:	No Cracking / No Delamination
Bleeding and Delamination:	Passed
Elevated Temperature & Humidity Resistance:	
Delamination:	None
Corrosion:	None
Loss of Metalization:	None
Permeance After Aging:	0.024
Permeance Before Aging:	0.01

T83 Rev 0317



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TempShield™ Technical Information

Double Bubble Metalized Both Sides

TempShield™ Insulation consists of two outer layers of metalized polyester. Each layer is bonded to a tough layer of polyethylene for strength. Two inner layers of insulating bubbles resist conductive heat flow while a center layer of polyethylene gives TempShield™ high reliability and strength.

Technical Data:

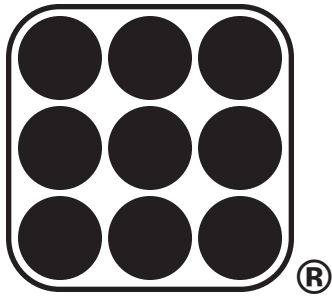
Temperature Range:	-60 degrees to +180 degrees F
Nominal Thickness:	5/16 inch (.312)
Weight:	1.25 oz./sq. ft.
Flame Spread Index (ASTM E 84):	Less than 25
Smoke Developed Index (ASTM E 84):	Less than 50
Fire Rating:	Class A/Class 1
Linear Shrinkage:	None
Reflectance (IR):	94%+
Fungi Resistance:	No Growth
Emittance:	Less than 0.06
Pliability:	No Cracking / No Delamination
Bleeding and Delamination:	Passed
Elevated Temperature & Humidity Resistance:	
Delamination:	None
Corrosion:	None
Loss of Metalization:	None
Permeance After Aging:	0.024
Permeance Before Aging:	0.015

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TempShield™ Technical Information

Single Bubble Metalized One Side/White One Side

TempShield™ Insulation consists of one outer layer of metalized polyester and one layer of white polyethylene. Each layer is bonded to a tough layer of polyethylene for strength. One inner layer of insulating bubbles resist conductive heat flow.

Technical Data:

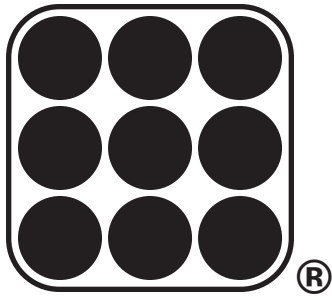
Temperature Range:	-60 degrees to +180 degrees F
Nominal Thickness:	3/16 inch (.188)
Weight:	.47 oz./sq. ft.
Flame Spread Index (ASTM E 84):	Less than 25
Smoke Developed Index (ASTM E 84):	Less than 50
Fire Rating:	Class A/Class 1
Linear Shrinkage:	None
Reflectance (IR):	94%+ Metal Side
Fungi Resistance:	No Growth
Emittance:	Less than 0.06 Metal Side
Pliability:	No Cracking / No Delamination
Bleeding and Delamination:	Passed
Elevated Temperature & Humidity Resistance:	
Delamination:	None
Corrosion:	None
Loss of Metalization:	None
Permeance After Aging:	0.025
Permeance Before Aging:	0.31

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TempShield™ Technical Information

Double Bubble Metalized One Side/White One Side

TempShield™ Insulation consists of one outer layer of metalized polyester and one layer of white polyethylene. Each layer is bonded to a tough layer of polyethylene for strength. Two inner layers of insulating bubbles resist conductive heat flow while a center layer of polyethylene gives TempShield™ high reliability and strength.

Technical Data:

Temperature Range:	-60 degrees to +180 degrees F
Nominal Thickness:	5/16 inch (.312)
Weight:	.80 oz./sq. ft.
Flame Spread Index (ASTM E 84):	Less than 25
Smoke Developed Index (ASTM E 84):	Less than 50
Fire Rating:	Class A/Class 1
Linear Shrinkage:	None
Reflectance (IR):	94%+ Metal Side
Fungi Resistance:	No Growth
Emittance:	Less than 0.06 Metal Side
Pliability:	No Cracking / No Delamination
Bleeding and Delamination:	Passed
Elevated Temperature & Humidity Resistance:	
Delamination:	None
Corrosion:	None
Loss of Metalization:	None
Permeance After Aging:	0.023
Permeance Before Aging:	0.01

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