



ThermaBarrier® TM

Reflective Bubble Data Sheet



Product	Single Bubble Foil/Foil	Double Bubble Foil/Foil	Single Bubble Foil/White	Double Bubble Foil/White
Description	Air bubble sandwiched between two reflective metalized films.	Air bubbles sandwiched between two reflective metalized films.	Air bubble sandwiched between one reflective metalized film and White PE with UV & FR	Air bubbles sandwiched between one reflective metalized film and White PE with UV & FR
Temp Range	-61°F to 180 °F -51°C to 82°C	-61°F to 180 °F -51°C to 82°C	-61°F to 180 °F -51°C to 82°C	-61°F to 180 °F -51°C to 82°C
Thickness	3/16 inch	5/16 inch	3/16 inch	5/16 inch
Water Vapor Transmission Permeability after ASTM C1258	.040 Perms ASTM E96	.046 Perms ASTM E96	.0075 Perms ASTM E96	.036 Perms ASTM E96
Puncture Strength	60 lbs/inch	60 lbs/inch	60 lbs/inch	60 lbs/inch
Tensile Strength	Length: 23 Pounds Force	Length: 26 Pounds Force	Length: 16 Pounds Force	Length: 20 Pounds Force
	Width: 20 Pounds Force	Width: 23 Pounds Force	Width: 13 Pounds Force	Width: 18 Pounds Force
Shrinkage	None	None	None	None
Pliability	No Cracking or Delamination ASTM C1224	No Cracking or Delamination ASTM C1224	No Cracking or Delamination ASTM C1224	No Cracking or Delamination ASTM C1224
Adhesive Performance	No Bleeding or Delamination ASTM C1338-14	No Bleeding or Delamination ASTM C1338-14	No Bleeding or Delamination ASTM C1338-14	No Bleeding or Delamination ASTM C1338-14
Flame Spread & Smoke	Class A/Class 1 0 Flame Spread, 0 Smoke Development ASTM Method E84-16	Class A/Class 1 0 Flame Spread, 10 Smoke Development ASTM Method E84-16	Class A/Class 1 0 Flame Spread, 5 Smoke Development ASTM Method E84-16	Class A/Class 1 0 Flame Spread, 10 Smoke Development ASTM Method E84-16
Resistance to Fungi	No Growth ASTM C1338-14	No Growth ASTM C1338-14	No Growth ASTM C1338-14	No Growth ASTM C1338-14
Total Hemispherical Emittance	EMISSION: 0.06 REFLECTIVITY: 94% ASTM C1371	EMISSION: 0.06 REFLECTIVITY: 94% ASTM C1371	EMISSION: 0.06 REFLECTIVITY: 94% ASTM C1371	EMISSION: 0.06 REFLECTIVITY: 94% ASTM C1371
Thermal Resistance Values	HEAT FLOW DOWN:R-7.57 HEAT FLOW UP: R-3.67 HEAT FLOW HORIZONTAL: R-5.04	HEAT FLOW DOWN:R-7.95 HEAT FLOW UP: R-4.05 HEAT FLOW HORIZONTAL: R-5.42	HEAT FLOW DOWN:R-5.28 HEAT FLOW UP: R-2.91 HEAT FLOW HORIZONTAL: R-3.99	HEAT FLOW DOWN:R-5.62 HEAT FLOW UP: R-3.25 HEAT FLOW HORIZONTAL: R-4.33