

DUCT LINER

- Fiber-free + closed cell structure = IAQ Control and Energy Conservation
- Available as S2S (skin-two-side)
- Greenguard Gold certified for low VOC content and microbial resistance
- Noise reduction (NRC of .50 at 1" thickness) – excellent absorption at low Hz frequencies (<500 Hz)
- Safe to install (non-dusting, non-wicking, non-abrasive, non-itching)
- Easy to fabricate, install, clean and maintain
- Contains an EPA-approved protective antimicrobial agent for added protection against mold
- CARTON QUANTITIES ONLY



PHYSICAL PROPERTIES	DUCT LINER GRAY	TEST METHODS
Main Composition	Flame-retarded NBR/PVC-based elastomeric foam	
Thermal Conductivity (K)	90°F (32°C) Mean Temp 0.27 (0.039)	ASTM C177
Btu-in/hr-Ft ² -F (W/mK)	75°F (24°C) Mean Temp 0.25 (0.036)	
Density	3-6 lb/ft ³	ASTM D1667
Operating Temperature Range	-297°F* (-183°C) TO +220°F (+104°C) PSA: -40°F (-40°C) TO +200°F (93°C)	ASTM C534
Water Vapor Permeability (Dry Cup)	<0.06 perm-in	ASTM E96
Water Absorption (Volume Change)	<0.20%	ASTM C209
Flame Spread / Smoke Development (up to 2" wall)	<25/50	ASTM E84
Pressure Sensitive Adhesive (PSA): Solvent-free, acrylic dispersion adhesive with high tack, high peel resistance (>20 N / 25 mm per DIN EN 1939), high shear adhesion (500 g / 625 mm ² per DIN EN 1943), and resistance to humidity and aging. Adhesive: 0.07 mm thickness; Support: Scrim; Liner: Poly film release liner, moisture and tear resistant, easy release.		
Dimensional Stability	<7% Linear Shrinkage	ASTM C534
Hot Surface Performance (220°F)	No Cracking or Delamination	ASTM C411
Ozone Resistance	Pass	ASTM D1171
Odor Emissions	No Objectionable Odor	ASTM C1304
Chemical/Solvent/Oil/Grease Resistance	Good	Compatibility Data Available on Request
Flexibility	Excellent Pass: Cold Crack Test at -40°F (-40°C)	ASTM C534 ASTM D1056
Mildew / Fungi Resistance	Pass	UL 181, ASTM G21, ASTM C1338
Air Erosion	4,000 FPM Rating	ASTM C1071 (tested to 10,000 FPM)
Corrosion Risk	pH neutral: 6.6±0.04	DIN 1988
Leachable Chlorides	<0.05% water-soluble chloride ions	DIN 1988
UV / Weather Resistance ¹	Pass	QUV Chamber Test
Sound Transmission Class (1")	12 (insulation only) 27 (insulation adhered to 22-gauge steel duct)	ASTM E90

*For applications below -40°F (-40°C), contact technical support.

¹ Where UV sterilizing equipment is used within the air handling system, protect Duct Liner Gray with Protective Coating.

SPECIFICATION COMPLIANCE

- ASTM C534 Type 2, Grade I
- ASTM C1534
- New York City MEA 186-86-M Vol. V
- USDA Compliant
- CFIA Compliant
- RoHS Compliant
- ASTM E84 25/50-rated (to 2") - tested to UL 723, NFPA 255 and CAN/ULC S102-03
- NFPA No. 101 Class A Rating
- NFPA 90A, 90B
- Code Compliant R-values: R-4.2 (1"), R-8 (2")
- UL 94: V-0, 5VA
- UL GREENGUARD® Gold Certified



THICKNESS RECOMMENDATIONS (TO PREVENT CONDENSATION)

SERVICE TEMPERATURE	50°F (10°C)			35°F (2°C)			0°F (-18°C)			-20°F (-29°C)		
	Mild	Normal	Severe	Mild	Normal	Severe	Mild	Normal	Severe	Mild	Normal	Severe
Surface Size	1/8"	1/2"	3/4"	1/4"	3/4"	1-1/2"	1/2"	1"	2"	3/4"	1-1/2"	2-1/2"
Flat Surface												

Thickness listed for the specified ranges will prevent condensation on indoor piping under the defined design conditions. Normal: 85°F and 70% R.H. Mild: Most air conditioned spaces and arid climates: 80°F and 50% R.H. Severe: Areas where excessive moisture is introduced or in poorly ventilated areas where the temperature may be depressed below the ambient: 90°F and 80% R.H. Contact technical support for additional information.

SOUND ABSORPTION COEFFICIENTS AT FREQUENCY (Hz) (ASTM C423)

THICKNESS	125	250	500	1000	2000	4000	NRC
1/2" (12mm)	0.01	0.03	0.06	0.13	0.33	0.23	0.15
1" (25mm)	0.06	0.17	1.06	0.32	0.67	0.54	0.55
2" (50mm)	0.23	0.84	0.32	0.60	0.39	0.31	0.55

SOUND INSERTION LOSS (dB) AT FREQUENCY (Hz) (ASTM E477)

THICKNESS	125	250	500	1000	2000	4000	8000
1" (25mm)	1	3	20	7	12	12	12

"R" VALUES (ALL SIZES ARE NOMINAL)

3/8"	1/2"	3/4"	1"	1-1/2"	2"
1.5	2	3	4.2	6	8