**Ultra*Duct™ GOLD**

**Applicable Standards:**
- Model Building Codes:
  - (BOCA, ICBO, ICC, SBCCI, WA State IAQ Standard)
- Material Standards: (UL 181)
  - Class 1 Rigid Air Duct
- Fire Safety Standards:
  - (NFPA 90A, NFPA 90B)

**Fire Resistance:**
- Surface Burning Characteristics: (UL 723 and ASTM E 84)
  - Max. Flame Spread Index; 25
  - Max Smoke Developed Index; 50
- Limited Combustible:
  - (NFPA 259) < 3,500 Btu/lb

**Physical/Chemical Properties:**
- Thermal Performance: See Table
- Acoustical Performance: See Table
- Operating Limits:
  - Temperature: (ASTM C 411) Max. 250°F (121°C)
  - Air Velocity: (UL 181) Max. 5,000 fpm (25.4 m/s)
  - Pressure ± 2" wc (498 Pa)
  - Ambient Temperature 150°F (66°C)
- Water Vapor Sorption:
  - (ASTM C 1104) < 2% by weight
- Water Vapor Transmission (Facing):
  - (ASTM E 96, Desicant Method) Max. 0.02 perms (1.15 x 10^-9 g/Pa-s-m2)
- Air Leakage Class: (SMACNA)
  - Class 6
- Corrosiveness: (ASTM C 665)
  - Pass
- Bacteria Resistance: (ASTM G 22)
  - No Growth
- Fungi Resistance:
  - (ASTM C 138 & ASTM G 21) Pass; No Growth