AEROFLEX

TECHNICAL BULLETIN

No: TB07
October 1, 2020

Certificate of Compliance

AEROFLEX® EPDM Closed-Cell Elastomeric Foam Insulation

MANUFACTURING SPECIFICATIONS

- ASTM C534 Grade 1, Type I (tubular) and Type II (sheet) – Standard Specification for Preformed Flexible Elastomeric Cellular Thermal Insulation in Sheet and Tubular Form – Result: meets requirements
- ASTM D1056, 2C1 – Standard Specification for Flexible Cellular Materials – Sponge or Expanded Rubber – Result: meets requirements
- ASTM D1171 – Standard Test Method for Rubber Deterioration – Surface Ozone Cracking Outdoors – Result: no cracking
- ASTM G7 – Standard Practice for Atmospheric Environmental Exposure Testing of Nonmetallic Materials – Result: minimal cracking or color change

FIRE BEHAVIOR

- ASTM E84, UL723 (25/50 Flame Spread/Smoke Developed Index) – Standard Test Method for Surface Burning Characteristics of Building Materials – Result: pass (up to 2", 50 mm thick)
- CAN/ULC-S102 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies - Result: pass (up to 2", 50 mm thick)
- ASTM D635 – Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position – Result: self-extinguishing
- NFPA 90A – Standard for the Installation of Air-Conditioning and Ventilating Systems – Result: meets requirements (up to 2", 50 mm thick)
- NFPA 90B – Standard for the Installation of Warm Air Heating and Air-Conditioning Systems – Result: meets requirements (up to 2", 50 mm thick)
- UL94 – Tests for Flammability of Plastic Materials for Parts in Devices and Appliances – Result: flame classification V-0

CHEMICALS / VOC'S / HUMAN HEALTH

- Health Product Declarations (HPD's) – verified per HPDC Open Standard v2.2 - Result: Verified
- SCS Indoor Advantage™ Gold Certified for low chemical emissions - Result: Certified
- California Department of Public Health CDPH Specification 01350 – Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers – Result: meets requirement
- ASTM C1338 – Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings – Result: no growth (no biocides added)
- ASTM G21 – Standard Practice for Determining Resistance of Polymeric Materials to Fungi – Result: no growth (no biocides added)
- UL181 – Standard for Factory-Made Air Ducts and Air Connectors, Section 13 Mold Growth – Result: no growth (no biocides added)

- EPA TSCA compliant
- RoHS 3 compliant
- REACH compliant
- DBDPE-free (decabromodiphenyl ethane)
- PBDE-free (Polybrominated diphenyl ether)
- Nitrosamine-free
- Asbestos-free
- Fiber-free

ENVIRONMENT

- Environmental Product Declarations (EPD's): Product-specific Type III
- No CFC's, HFC's or HCFC's utilized during manufacturing
- Ultra-low PVC content (< 1%)

U.S. GREEN BUILDING COUNCIL (USGBC) LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED®)

- Energy & Atmosphere (EA) - Result: can contribute
- Materials & Resources (MR)
  - Product Disclosure & Optimization: Environmental Product Declarations - Result: can contribute
  - Product Disclosure & Optimization: Material Ingredients - Result: can contribute
- Indoor Environmental Quality (EQ)
  - Prerequisite: Minimum Energy Performance - Result: can contribute
  - Credit: Optimize Energy Performance - Result: can contribute
  - Credit: Low-Emitting Materials - Result: can contribute
  - Credit: Indoor Air Quality Assessment - Result: can contribute
  - Credit: Thermal Comfort - Result: can contribute
  - Credit: Acoustic Performance - Result: can contribute
- Innovation (IN)
  - Credit: Occupant Comfort Survey – Result: can contribute

ENERGY CODES

- ANSI/ASHRAE/IES Standard 90.1 – Energy Standard for Buildings Except Low-Rise Residential Buildings – Result: meets requirements
- International Green Construction Code® (IgCC®) – Result: meets requirements
- International Energy Conservation Code® (IECC®) – Result: meets requirements
- California Building Energy Efficiency Standards (Title 24) – Result: meets requirements

BUILDING CODES

- International Mechanical Code® (IMC®) – Result: meets requirements
- International Residential Code® (IRC®) – Result: meets requirements