July 17, 2014

Ed Cellucci

Plast-O-Matic Valves, Inc.

1384 Pompton Avenue

Cedar Grove, NJ 07009

Dear Ed

Re : Your question about the Kynar PVDF Plast-O-Matic uses in your valves.

KYNAR® PVDF resins have been tested and meet many standards that other polymers fail. KYNAR 740-02 and KYNAR 1000HD homopolymer, and KYNAR FLEX® 2850-02 copolymer, were the first thermoplastics to meet the ASTM E84 flame spread and smoke development requirement for materials installed in plenums. These resins meet the criteria by having a flame spread/smoke developed index of less than 25/50, respectively.

KYNAR homopolymer resins and KYNAR FLEX 2850 resin meet both the Factory Mutual 4910 (FM 4910) and corresponding UL 2360 burn test criteria. These recent flame and smoke standards were established for semiconductor clean room environments where fires can cause high value losses, making it essential that fire be contained within the ignition zone.
Testing in accordance with ASTM D2863 indicates that KYNAR homopolymer resin has a limiting oxygen index (LOI) of 43, that is, a 43% oxygen environment is needed for the polymer to continue to burn.

Should you have any questions regarding this information, please feel free to contact me at 719-784-3178 or ted.hutton@arkema.com.

Sincerely,

Ted Hutton

Ted Hutton
Standards and Specifications Engineer
Fluoropolymers
Arkeama Inc.

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See MSDS for Health & Safety Considerations