Notice

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2) Please refer to the SDG (Safety Data Sheet) for safety and details.

3) This product is not designed for use in the implantation of the human body or for medical applications that come in contact with body fluid or body tissues. ASAHI GLASS CO., LTD. carries no test as to the fitness of the product for any medical applications.

4) The contents are subject to change without prior notice.

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LM-ETFE is the evolution of ETFE.
It expands possibilities of fluoropolymers with its properties absent in the past.

Fluon® LM-ETFE is a thermoplastic fluoropolymer with unique properties absent in the conventional ETFE.
Processing can be performed in various molding methods in a wide temperature range because of its superior processability.
New application can be realized, including moldings with its excellent surface smoothness, and films with its transparency, etc.

- Excellent processability depends on its lower melting point.
  Melting point is as low as 235°C. It has lower viscosity over 240°C, so processing is possible at temperatures 50°C lower than conventional ETFE.

- Excellent flexibility and mechanical properties.
  It has higher flexibility and mechanical strength. In particular, LM-ETFE withstands 5x life for over 100,000 times. Further, LM-720AP has a higher elongation at high temperature.

- Excellent chemical resistance and electrical properties.
  It has excellent resistance to almost all chemical agents and solvents. It has excellent electric insulation property, and exhibits higher dielectric strength even as a thin film. In a wide frequency range, the dielectric constant similar to that of the conventional ETFE is presented.

- Nonflammable and safety.
  Nonflammable material conforming to UL standards 94V-O. Tasteless, odorless and nonpoisonous. Recommended for the food industry. Moreover, Fluon® LM-ETFE is a US FDA compliance, and registered in the inventory of Food Contact Substances at #481.

- Excellent surface property.
  It possesses lower frictionality, anti-stick, and excellent water and oil repellency. It possesses higher surface smoothness, and reduces resistance of fluids.

Thermal magic in ETFE
Lower melting point fluoropolymer with improved heat resistance
Heat resistance and lower melting point. This insoluble contradiction is solved by our advanced technique. ETFE resin now becomes easier to use with better performance. Fluon® LM-ETFE is a thermoplastic fluoropolymer developed by Asahi Glass Co, Ltd. The melting point of LM-ETFE is lower by 30 to 40°C than conventional ETFE, enabling processing over a wider temperature range with remarkably improved processability. LM-ETFE has better heat resistance than conventional ETFE. Optimum properties have been pursued to fit the needs at actual production sites. It is a magic in fluorine chemistry realized by Asahi Glass Co., Ltd.

- Excellent processability depends on its lower melting point.
  Melting point is as low as 235°C. It has lower viscosity over 240°C, so processing is possible at temperatures 50°C lower than conventional ETFE.

- Excellent heat resistance. Usable over a wide temperature range.
  It has a higher heat resistance than the ETFE resin, so it is usable over a wide temperature range from -200 to 180°C. Continuous usage at 180°C is also possible. It also maintains table electrical properties.

- Excellent flexibility and mechanical properties.
  It has higher flexibility and mechanical strength. In particular, LM-ETFE withstands 5x life for over 100,000 times. Further, LM-720AP has a higher elongation at high temperature.

- Excellent chemical resistance and electrical properties.
  It has excellent resistance to almost all chemical agents and solvents. It has excellent electric insulation property, and exhibits higher dielectric strength even as a thin film. In a wide frequency range, the dielectric constant similar to that of the conventional ETFE is presented.

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- High transparency
  It has higher transparency than the conventional ETFE from visible to ultraviolet range.

- Excellent surface property
  It possesses lower frictionality, anti-stick, and excellent water and oil repellency. It possesses higher surface smoothness, and reduces resistance of fluids.
Fluoropolymer as Environment-symbiotic Technology

Nowadays, environmental protection is regarded as the highest priority theme in every industrial field. Fluoropolymer and fluoroelastomer have been applied into environmental friendly products and process techniques. The properties of fluoropolymer and fluoroelastomer such as weatherability, nonflammability and chemical resistance give longer life to various products and save resources and reduce industrial wastes. For examples, Fluon® ETFE is used for fuel hose of automobile to reduce its fuel permeation, and F-CLEAN ® ETFE film contributes to solve environmental problems and plays an important role in realizing a safe and comfortable society of environment-symbiotic type.

AGC as a manufacturer of fluorine chemicals establishes recycling process technique and anti-pollution process technique in actual production sites, to continuously effort to reduce the environmental load by the fluorine products themselves. AGC helps your continuous effort for environment protection, through our development, improvement, and enhanced applications of these products. Simultaneously, AGC believes that the technology of fluoropolymer with advantageous possibilities contributes to solve environmental problems and plays an important role in realizing a safe and comfortable society of environment-symbiotic type.