

Innovative Solution to add Heat & Chemical Resistance to your Existing Applications

AGC



Fluon® ETFE LH8000

Fluon® LH8000 is a new ETFE material developed by AGC to extend its already successful adhesive Fluon® ETFE and PFA ranges. It is an ultra-low melting ETFE resin with built-in adhesion.

Adhesive Fluon® ETFE has a well-established track record in automotive fuel hose systems. Fluon® LH8000 takes Fluon® ETFE into a very new market position with an ultra-low melting point allowing co-extrusion and ability to bond to conventional engineering plastics such as HDPE (with tie layer), PA etc.

It can also be used to manufacture film for packaging and other applications.

Potential Markets:

- Building and construction
- Chemical and plastics industry
- Food industry, agrochemicals and pharmaceuticals
- Oil and gas
- Paint, coatings and adhesives
- Environment
- Water purification
- Packaging
- Transport



Widen Your Horizons with this Ultra Low Melting Fluoropolymer

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Potential Applications:

Tubes for conveying materials in the chemicals, plastics, building, paint, oil and gas industries, including domestic hot water systems and chlorinated water systems. Other possibilities are blow-moulded chemical containers, industrial pouches, multi-layer tubes and protective films where a 'fluoro' surface can provide enhanced chemical and thermal performance for conventional engineering plastics.

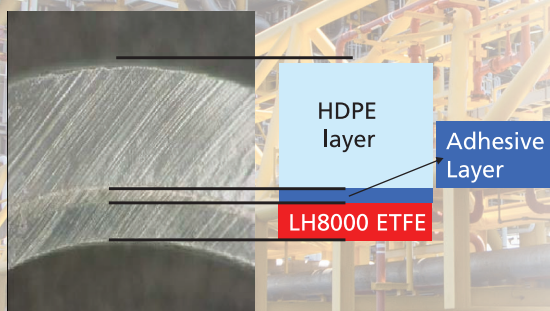
Processing:

Co-extrusion. Chemically bonding LH8000 to HDPE requires a "tie layer" (e.g. IGETABOND™ or a MAH-grafted PE.)

Property	Units	LH8000
MFR 235°C, 2.16kg 297°C, 5kg	g/10min	4.8 78
Melting Point (DSC)	°C	190
SG	-	1.75
Tensile Strength	MPa	45
Tensile Elongation	%	440
Flex Modulus	MPa	950

Co-extruded HDPE & Fluon® LH8000 ETFE composite tube

PE tube 8mm dia.



Advantages:

- Ultra low melting point for greater processing compatibility with non-fluoropolymers.
- Adhesive function built into the polymer chain for chemical bonding to existing commercially available adhesive low melting polymers.
- Large window of processing temperature minimises any possible material decomposition.
- Tests show low gas levels produced during usual processing conditions (at a level exhibited by PVDF). However precautions should be taken if using excessively high processing temperatures or long extruder retention time.

AGC Chemicals Europe, Ltd.
PO Box 4, Thornton Cleveleys
Lancashire FY5 4QD UK
Tel: +44 (0) 1253 209560
Email: etfe@agcce.com
www.agcce.com

AGC Chemicals
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