



# Fluon® ETFE

## C88AXMP-HT

Re-inventing ETFE

# AGC

## New Ultra Heat-Resistant Grade from AGC Chemicals, the World's No.1 in ETFE

- Performs better at higher temperatures than standard ETFE (up to 200°C)
- Is extremely lightweight allowing ultra-thin layer insulation (for vehicles and aircraft where carbon footprint and fuel efficiency is important)
- Improved stress crack resistance, abrasion resistance and mechanical strength
- Enhanced thermal stability
- Aimed at automotive standard LV112 (Class F)
- Meets automotive FLUR specifications
- Provides production efficiencies (high speed processing)
- A little goes a long way (C88AXMP-HT is **20% less dense** than FEP)
- Full range of compatible color masterbatches also manufactured by AGC
- One product grade is suitable for all wire size cross sections (0.3mm<sup>2</sup> - 10mm<sup>2</sup>)

### Typical Applications

- Automotive wire and cable
- Industrial wire and cable
- Underfloor heating cables

### Comparison with FEP

Property	Units	FEP	New Product C88AXMP-HT
Tensile Strength	MPa	<25	>50
Tensile Elongation	%	<360	>500
MIT (flex life)	no. times	<6500	>26000
Density	g/min	2.15*	1.75
Cut-through Resistance	kg	<10	>20
Abrasion Resistance	no. times	<8000	>16000

\* Up to 20% higher



# Fluon<sup>®</sup> ETFE C88AXMP-HT

## The Next Generation of ETFE

### Processing

- No special equipment other than standard fluoropolymer processing equipment is required
- High Melt Flow Rate gives fast, highly efficient line speeds




### Comparison with Standard ETFE

Property	Units	Standard ETFE	New Product C88AXMP-HT
Temperature where 5% weight loss occurs	°C	380	395
Temperature where 10% weight loss occurs	°C	390	405
MIT (flex life)	no. times	16400	26500
Tensile Elongation	%	496	550
Tensile Strength	MPa	52	52
Stress Crack Temperature*	°C	185	220

\* MIL W 81822 TYPE A

### Independent Technical Data

Test were carried out in the laboratories of EDAG (Engineering + Design AG) on multiple batches.

-  Long term heating aging test (3000 hrs at 200°C)
-  Thermal overload test (6 hrs at 250°C)
-  Short-term aging test (240 hrs at 225°C)

For more information and samples please contact:

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