

RE-INVENTING ETFE..... new ultra heat-resistant grade from AGC Chemicals, the world's No. 1 in ETFE



Fluon[®] ETFE C88AXMP-HT

- ✓ 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
- ✓ Gives production efficiencies (high speed processing)
- ✓ A little goes a long way (C88AXMP-HT is 20% less dense than FEP)
- ✓ Full range of compatible colour masterbatches also manufactured by AGC
- ✓ One product grade is suitable for all wire size cross sections (0.3mm² – 10mm²)
- ✓ Made in the EU

Comparison with FEP

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

* Almost 20% higher

Applications:

- Automotive Wire and Cable
- Industrial Wire and Cable
- Underfloor Heating Cables

The New 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

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

* 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 heat aging test (3000 hrs at 200°C) **PASS** ✓
- Thermal Overload test (6 hrs at 250°C) **PASS** ✓
- Short-term aging test (240 hrs at 225°C) **PASS** ✓

Values shown are typical values and not for specification purposes

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