

The logo for AGC, consisting of the letters 'AGC' in a bold, blue, sans-serif font. The 'A' and 'G' are connected, and the 'C' is separate. There is a small red and white graphic element above the 'C'.A photograph of the Canary Wharf Crossrail Station, showing a modern, glass and steel structure with a curved walkway and greenery.

© Canary Wharf Crossrail Station

The Fluon logo, featuring a stylized green and white graphic of a cluster of dots or a molecular structure.

Fluon[®]
Melt Processable
Fluoropolymers



© The SSE Hydro

Fluon® Colour Concentrates

| Grade | Addition level ¹ (%) | Typical MFR Range (g/10min) ² | Processing | Applications |
|------------------|---------------------------------|--|---------------------------------|--|
| C88AXM-HT Series | 1 - 3 | 7 - 32 | Extrusion Injection moulding | Wire & cable coating, pigmented ETFE products, injection moulded components. Excellent stress crack resistance |
| FEP 9400 Series | 1 - 3 | 22 - 30 | Extrusion Injection moulding | Wire & cable coating, pigmented injection moulded components & tubes. Specifically for use as a colour masterbatch in extrusion or injection moulding of high flow FEP |
| PFA 62X Series | 6 - 10 | 23 - 31 | Extrusion Injection moulding | Wire & cable coating, pigmented injection moulded parts, film & tubes |

¹ Although an addition level of 1-3% is stated, a lower addition level may be possible, depending on the application. A wide choice of colours is available. Please contact the sales office for more information.

² MFR is dependent on the actual colour added. Please refer to our technical data sheet (available from the AGC Chemicals Europe Sales Office) for specific MFR by colour.

Fluon® PFA

| Test method: | D3307 | D3418 | D792 | D638 | D638 | | |
|--------------|---------------|-----------|-------|----------|------------|---|---|
| Grade | MFR g/10 mins | mpt (°C) | S.G. | TS (MPa) | Elong. (%) | Processing | Applications |
| P-62XP | 24 - 36 | 305 - 315 | 2.156 | 32 | 410 | Extrusion Injection moulding | Injection moulding small precision components, wire coating |
| P-63P | 7 - 18 | 305 - 315 | 2.155 | 32 | 410 | Extrusion Injection moulding | Wire coating, injection moulded parts, tubing |
| P-66P | 1 - 3 | 305 - 315 | 2.142 | 40 | 340 | Extrusion Injection moulding Compression moulding Blow moulding Transfer moulding | Components (tubes, valves, rod, sheet, fittings, billets), stress crack resistant linings |
| EA2000 | 10 - 30 | 300 | 2.1 | 36 | 460 | Extrusion Co-extrusion (with PA12 etc.) | Hose & tube, including multi-layer tube, adhesive film, printed circuit boards (PCBs) |

Fluon® ETFE Natural Resin Grades & blended ETFE Grades

| Test method: | D3159 | D3418 | D792 | D638 | D638 | | |
|--------------|---------------|----------|------|----------|------------|---|--|
| Grade | MFR g/10 mins | mpt (°C) | S.G. | TS (MPa) | Elong. (%) | Processing | Applications |
| C-55AP | 3.9 - 8.0 | 265 | 1.74 | 52 | 382 | Extrusion | Tubing, wire coating, film |
| C-55AXP | 3.9 - 8.0 | 258 | 1.73 | 52 | 415 | Extrusion | Tubing, wire coating, film |
| C-88AXP | 9 - 12 | 260 | 1.73 | 48 | 415 | Extrusion Injection moulding | Tubing, wire coating, injection moulded parts, film |
| C-88AXMP | 24 - 43 | 260 | 1.73 | 42 | 430 | High speed wire coating Injection Moulding | High speed (thin wall) wire coating, injection moulding small precision parts |
| C-88AXMP HT | 24 - 43 | 254 | 1.73 | 42 | 430 | High speed extrusion and injection moulding | Coating of wire & cable. Aimed at automotive specification LV 112 (Class F) |
| HR-907 | 7 | 247 | 1.76 | 46 | 400 | Extrusion Injection moulding | Improved thermal stability compared to standard ETFE |
| HR-930 | 30 | 244 | 1.76 | 46 | 450 | Extrusion Injection moulding | High flow version of HR907. Improved thermal stability compared to standard ETFE |
| AR-8018 TD | 3.2 | 270 | 1.67 | 22 | 360 | Extrusion Injection moulding | Injection moulded parts, tubing, wire coating. Greater flexibility than natural ETFE |
| AR-3300N | 7 | 220 | 1.62 | 10.5 | 450 | Extrusion Injection moulding | Injection moulded parts, tubing, wire coating. Greater flexibility than natural ETFE |

X in grade code denotes enhanced stress crack resistance.

Compound grades e.g. glass fibre, carbon fibre, PTFE, anti-static etc. are also available. Please contact the sales office for details.

Fluon® LM-ETFE Low Melt Point ETFE

| Test method: | D3159 | D3418 | D792 | D2863 | D638 | D638 | | |
|---------------|--|----------|------|-------|----------|----------------|--|---|
| Grade | MFR g/10 mins | mpt (°C) | S.G. | LOI* | TS (MPa) | Elongation (%) | Processing | Applications |
| LM-720AP | 10 - 20 | 225 | 1.78 | 40 | 43 | 380 | Extrusion Injection moulding | Tubing, film, wire coating |
| LM-730AP | 20 - 30 | 225 | 1.78 | 40 | 40 | 400 | Extrusion Injection moulding | Tubing, film, wire coating |
| LM-740AP | 30 - 40 | 225 | 1.78 | 40 | 38 | 420 | Extrusion Injection moulding | Tubing, film, thin wall wire coating |
| AH2000 | 25 | 240 | 1.78 | - | 49 | 425 | Extrusion | Fuel hose, laminated film, tubes, hoses etc. Special adhesive function for PA12 |
| AH3000L-CH1** | 6 | 236 | 1.77 | - | 29 | 433 | Extrusion | Fuel hose, tubing, etc. where antistatic performance is specified. Special adhesive function for PA12 |
| LH8000 | (297°C; 5kg) = 78 (235°C; 2.16kg) = 4.8 | 192 | 1.75 | - | 44 | 417 | Extrusion Co-extrusion ¹ (e.g. with HDPE, TPU, PA, PE, PMMA, PET etc.) | Co-extruded tubes, any application where metal needs to be bonded to ETFE |

*Limiting Oxygen Index

**Surface resistivity of AH3000L: 2.1 Log Ω.cm

¹Tie layer required with some plastics

Fluon® ETFE Powder Grades

| Grade | Particle Size (µm) | Application thickness | Processing | FDA | Applications |
|-----------------------|--------------------|--------------------------|---|-----|---|
| Z 8820X | 20 - 30 | 50 - 120µm | Electrostatic spray coating | 4 | Thin coatings Fluid dip coating Non-stick for cookware Top coat for ZL520/521N |
| Z 885C | 50 - 80 | 50 - 150µm 50 - 400µm | Electrostatic spray coating Fluid dip coating | 4 | Non-stick Corrosion resistance |
| ZL520N | 70 - 80 | up to 800µm | Electrostatic spray coating | 8 | Corrosion resistance (20% carbon fibre added) |
| ZL521N | 50 - 60 | up to 800µm | Electrostatic spray coating | 8 | Top coat for ZL520N (5% carbon fibre added) |
| ZL522F | 100 - 200 | 2 - 5mm | Rotolining | 4 | Corrosion protection for severe conditions. |
| TL581 | 250 - 300 | 2 - 5mm | Rotolining | 4 | Reactors, vessels, tanks, pipe lines, pump housings |
| TL081 | 80 - 150 | up to 800µm | Electrostatic spray coating Fluid dip coating | 4 | |
| LM2150 | 60 - 70 | up to 800µm | Electrostatic spray coating | 4 | Non stick, anti-corrosion coatings |
| LM2300N | 300 - 500 | 2 - 5mm | Rotolining | 4 | Low melt point ETFE powder grade. Very smooth surface finish characteristics |
| CP-801XBK | 50 - 150 | up to 800µm | Electrostatic spray coating | 8 | Anti-corrosion coatings |
| IL-300J Liquid Primer | - | - | Spray coating, painting onto substrate or dip coating | | Primer for use in application of ETFE powder via electrostatic spray coating |

Our product range is continuously being improved and enhanced.

Data in this brochure is typical property data which should not be used for specification purposes. Please contact the AGC Chemicals Europe sales office for the latest information on grades and product properties. (Fluon® is a trademark of Asahi Glass Co., Ltd.)

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