# PFA 30

## Copolymer PFA for Extrusion Processes

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### Description

**Perfluoroalkoxy alkanes** or **PFA** are fluoropolymers. They are copolymers of tetrafluoroethylene and perfluoroethers. Melting points range from 295 to 310 C. Compared to FEP, the copolymerization composition ratio of the comonomer content is small, and PFA has a chemical structure that is close to PTFE. Therefore, PFA has a higher melting point and higher heat resistance than FEP.

### Application

**PFA 30** is mainly used in the aviation, aerospace, and chemical industry. It can be utilized for faster cable extrusion; it is more economical for most purposes without stress cracking resistance.

### Safety Precautions

Adequate ventilation in properly maintained processing and handling areas will eliminate known hazards to personnel. Resin containers should be opened and used in well ventilated areas.

Equipment used to process at melt temperatures should be provided local exhaust ventilation to completely remove all fumes and vapors from the processing area. Additionally, care should be exercised to avoid the contamination of cigarettes and other forms of smoking tobacco when using fluoroplastic resins. Before processing any fluoroplastics, read the Safety Data Sheet available upon request. Also read the detailed information in the latest edition of the “Guide to the Safe Handling of Fluoropolymer Resins”’ published by the Fluoropolymers Division of the Plastics Industry Association (www.plasticsindustry.org/supply-chain/material-suppliers/fluoropolymers-division).

### Product Packaging

**PFA 30** is packed in a plastic bag of translucent particles that will show quality certificate, brand, lot number & net content of 25 kg.

### Storage

**PFA 30** should be stored in a clear, dry, shady place to avoid any contamination.

### Transportation

**PFA 30** is neither toxic, inflammable, explosive nor corrosive. It can be transported according to non-dangerous products.

| Physical Properties | Typical Value [2] | Unit | Test Method [1] |
|---|---|---|---|
| Specific Gravity | 2.12-2.17 | - | ASTM D 792 |
| Melting Point | 300 to 310 | ºC | ASTM D 3418 |
| Thermal Decomposition ≥ | 260 | ºC | TGA, 1% Wt. Loss $N_2$ |
| Moisture | 0.01 | % | HG/T 2902-1997 |
| Ultimate Elongation | 350 | % | ASTM D 638 |
| Tensile Strength | 28 | MPa | ASTM D 638 |
| MFR | 24.1-30 | g/10min | ASTM D 1238 |

(1) Tested in accordance with the latest issue of the designated Test Methods.
(2) Data represents typical values and should not be used for specification work.

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