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**MINERAL FILLERS**  
**-ADDITIONAL-**

**POLYMIST®**  
**-Polytetrafluoroethylene-**

**PRODUCT DESCRIPTION:**

Polymist F-5A is a white free-flowing powder. F-5A is comprised of discrete particles of PTFE. The powder is designed for use as an additive in elastomers or plastics where improved lubricity and/or wear resistance is required. PTFE powders can be used at constant temperatures from -190°C to 260°C (-310°F to 500°F). Polymist F-5A has been specially treated during processing to provide a finely divided product that will not agglomerate and can easily be dispersed in a dry or liquid compound.

**TYPICAL PROPERTIES: Polymist / Algoflon®**

Product Grade .....	F-5A
Color.....	white
Average Particle Size, μ.....	< 6
Particles > 20 μ, %.....	3 max
Specific Gravity .....	2.28
Bulk Density, g/l .....	400
Melting Point, °F / °C.....	613 / 323
Crystallization Temp, °F / °C.....	594 / 312
Specific Surface Area, m <sup>2</sup> /g.....	3
Coefficient of Friction.....	< 0.1

**APPLICATIONS:**

Elastomeric parts containing Polymist has shown improved lubricity and reduced friction and wear when compared with similar parts made without this additive. Typically 5 to 50% (by weight) can be added to elastomeric compounds in order to achieve the desired properties. Improvements in tear strength, abrasion resistance and flex life have been measured when 10 phr or more of Polymist are incorporated in fluoro-elastomers, fluoro-silicones, EPDM, neoprene and SBR elastomeric compounds.

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## **BENEFITS:**

- \* Inert to practically all chemicals and solvents
- \* Exhibits excellent release and anti-stick properties
- \* Does not agglomerate or lump during handling or processing
- \* Improves tensile properties
- \* Improves tear resistance
- \* Improves thermal stability
- \* Improves wear characteristics
- \* Improves weatherability

## **HANDLING AND SAFETY:**

When Polymist and Algoflon lubricant powders are heated to temperatures above 450°F, minor amounts of decomposition products, which may be harmful, are given off. Avoid inhalation of these fumes. Process equipment should be vented and adequate ventilation provided in the work area. Please refer to the material safety data sheet for further information. Polymist and Algoflon products, when stored at room temperature conditions, have an indefinite shelf life.