



Everflon™
PTFE
Micropowders

MV3

Description

Everflon™ PTFE MV3 fluoroadditive is a white, free-flowing, PTFE powder designed for use as an additive in other materials or as a dry lubricant. It can be used at temperatures from $-190\text{ }^{\circ}\text{C}$ to $250\text{ }^{\circ}\text{C}$ ($-310\text{ }^{\circ}\text{F}$ to $480\text{ }^{\circ}\text{F}$), and is inert to nearly all industrial chemicals and solvents. It is a good electrical insulator, does not absorb water, and is highly resistant to weathering.

- Low surface energy
- Improved lubricity and wear in plastics and elastomers
- Improved performance in lubricants under severe conditions
- Improved nonstick and antifriction properties



Typical Property Data for Everflon™ PTFE MV3 Fluoroadditive

Property	Test Method	Units	Typical Value
Bulk Density	ASTM D-4894	grams/liter	440
Particle Size – Low Shear	Laser Diffraction	Average (μm) D10 D90	3 18 70
Particle Size	Hegman ASTM D-1210	microns	3
Surface Area	Krypton adsorption	meter ² /gram	1.5-3
Moisture Content	ASTM D-4019	%	< 0.1
Particle Type		Rounded shape, intermediate hardness	
Melting Point	ASTM D-3417	$^{\circ}\text{C}$ ($^{\circ}\text{F}$)	325 (617)

Typical Applications

It can be added at up to 30% by weight to base elastomers to improve abrasion resistance and lower the coefficient of friction. At 1-3% by weight, it is an excellent slip enhancer for a variety of water and solvent based inks. It can also be added to plastics, such as polyacetals, polyamides, polycarbonates, polyesters, polyimides, polysulfides, and polysulfones, at 5-20% by weight to reduce friction and wear.

- Provides anti-stick surfaces
- Reduces friction and wear in parts
- Reduces plate-out
- Increases lubrication
- Provides improvements in corrosion inhibition
- Reduces wettability
- Reduces “blocking” in inks
- Improves gloss and surface smoothness



Handling Precautions

Heating Everflon™ PTFE in excess of 399 °C (750 °F) can produce toxic fumes. It is, therefore, necessary to provide local exhaust ventilation in areas where Everflon™ PTFE products are exposed to high temperatures. Avoid breathing fumes or contaminating smoking tobacco with fumes, powder, or dust.

Thermal decomposition of this product will generate hydrogen fluoride, which is corrosive. Corrosion resistant materials are required for prolonged contact with molten resin.

Everflon™ PTFE MV3 is packaged in 25-kg (55.1-lb) drums. Eight 25-kg drums are packaged on one pallet for ease of shipping, handling, and storage.



For more information, visit www.everflon.com

For sales and technical support contact, please contact info@everflon.com

Everflon logo are trade mark of Everflon Fluoropolymer Co.,Ltd

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