



Everflon™
PTFE
Micropowders

MVP

Description

Everflon™ PTFE MVP is a finely milled PTFE (polytetrafluoroethylene). It is especially suitable for thermoplastic applications. This micropowder may also be used for compounding in rubber and thermoset products. The rounded particle shape and intermediate hardness permit mixing without further breakdown and without large increases in viscosity. This product is FDA compliant for food contact applications. Everflon™ PTFE MVP also features a low volatile content which may have value in specialized applications. No perfluorooctanoic acid (PFOA) or its salts are used to manufacture Everflon™ PTFE MVP.



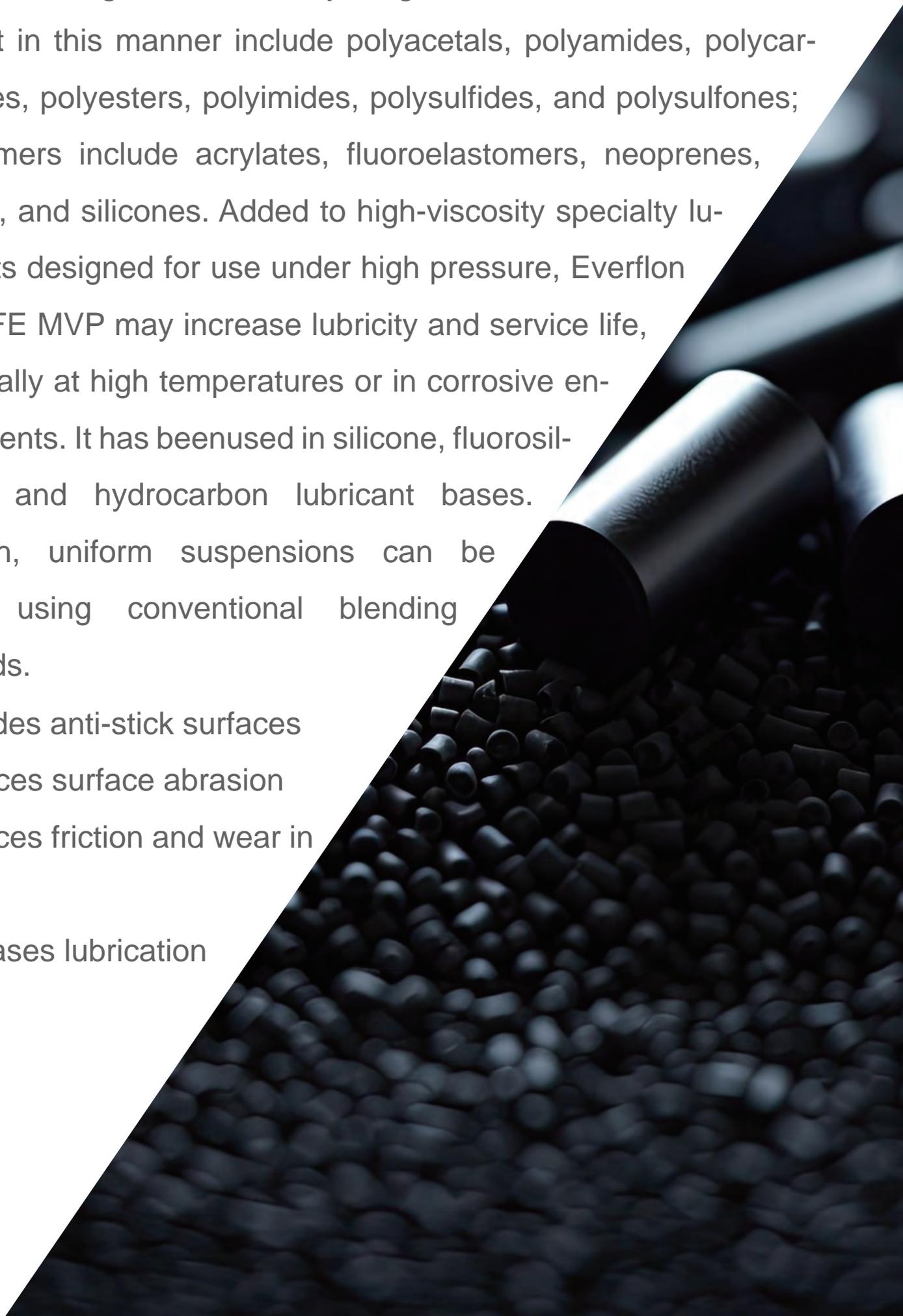
Typical Property Data for Everflon™ PTFE MVP Fluoroadditive

Property	Test Method	Units	Typical Value
Bulk Density	ASTM D-4894	grams/liter	440
Particle Size – Low Shear	Laser Diffraction	Average (µm)	13
		D10	40
		D90	95
Particle Size	Hegman ASTM D-1210	microns	17
Surface Area	Krypton adsorption	meter ² /gram	1.0
Moisture Content	ASTM D-4019	%	< 0.1
Particle Type		Rounded shape, intermediate hardness	
Melting Point	ASTM D-3417	°C (°F)	325 (617)

Typical Applications

Typical loadings of 5 to 20% by weight are used. Plastics that can benefit in this manner include polyacetals, polyamides, polycarbonates, polyesters, polyimides, polysulfides, and polysulfones; elastomers include acrylates, fluoroelastomers, neoprenes, nitriles, and silicones. Added to high-viscosity specialty lubricants designed for use under high pressure, Everflon™ PTFE MVP may increase lubricity and service life, especially at high temperatures or in corrosive environments. It has been used in silicone, fluorosilicone, and hydrocarbon lubricant bases. Smooth, uniform suspensions can be made using conventional blending methods.

- Provides anti-stick surfaces
- Reduces surface abrasion
- Reduces friction and wear in parts
- Increases lubrication



Processing

Everflon™ PTFE MVP can be tumble mixed with thermoplastics in powder form to give dry blends, which can then be extruded or molded. To ensure an acceptable dispersion of the PTFE, the particle size of the thermoplastic powder should not exceed 150 microns. It is also possible to achieve a good dispersion by mixing Everflon™ PTFE MVP with thermoplastics using a high shear mixer. These mixers can also be used to prepare a masterbatch containing 40% PTFE, which can then be blended into the bulk of the thermoplastic to give the required PTFE composition for the final product. There are no special processing conditions required when using Everflon™ PTFE MVP as an additive in thermoplastics.



Everflon™ PTFE MVP 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

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