

# PTFE (PolyTetraFluoroEthylene) micronized powder

## Product # MK-PTFE-270

PTFE powders are specially developed for use as additives in other materials. The micronized PTFE, due to its characteristic properties such as wear and abrasion resistance, low friction coefficient, flame retarding properties, heat resistance, insolubility and tensile strength its used as additive in a wide range of applications such as inks, paints, thermoplastics, thermosets, coatings, grease & lubricants, and elastomers.

PTFE is ideal additive for high performance polymers that operate under extreme conditions of temperature, pressure and harsh environment. PTFE is also very useful additive in a wide range of lubricants and release coatings.

### Properties of PTFE Micronized Powder

• Inert to practically all chemical solvents	• Modify appearance	• Improve Weather Resistance
• UV Protection	• Non-Aging Characteristics	• Improve Thermal Stability
• Excellent Electrical insulator	• Toughness and Flexibility	• Useful Properties at -240 °C (-400 °F)
• Enhance abrasion Resistance	• Non-stick Characteristics	• Moderate Stiffness and High Ultimate Elongation
• Improve surface Finish	• Negligible Moisture Absorption	• Exceptional Dielectric Properties
• Reduce friction coefficient and mechanical wear	• Service Temperature up to 260 °C (500 °F)	• Stable with Frequency and Temperature
• Increase Rub Resistance	• Improve Water Repellency	• Improves Gloss Retention
• Increase Mar Resistance	• Improve Moisture Resistance	• Improves Tribological Properties
• Improve Slip Resistance	• Used in All Waterborne Applications	• Improves Texture
• Improves Flexibility	• Improves Clarity	• Improves Fatigue Stress Resistance
• Improves Vibration Dampening	• Improves Noiselessness	• Improves Dimensional Stability
• Low Cold Flow	• Excellent Low Stick-Slip Effect	• Improves Thermal Dissipation Capacity
• Imparts Low Surface Energy	• Improves Toughness	• Improves Anti Drip Properties

 <p><b>www.lowerfriction.com</b></p>	<p><b>M K Impex Corp.</b>          6382 Lisgar Drive          Mississauga, Ontario L5N 6X1          Canada          Phone: 416-509-4462; Fax: 905-824-1259          Business No: 84319 4861 RT0001</p>
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## Applications of PTFE Micronized Powder

Offset, Gravure and Flexographic Inks	Digital and Electronic Inks	Coatings, Industrial, Automotive Top Coats
Graphic Arts	Paints	Adhesives
Waxes and Polishes	Cleaners	Wood Protection
Thermoplastic Fibers	Wire and Cable	Plastic / Thermoplastic gears components
Elastomers	Lubricants, Greases and Oils	Cosmetics like personal care, hair care and sunscreens
Agricultural Chemicals and Pesticides	Textile Fibers	Electronics/Electrical coatings and components
Polymeric Computer Chips	Batteries	Explosives & Pyrogenics
Anti Graffiti Application	Stone Marble and Concrete Protection	Stone Enhancers
Brake Pads for Automobiles	Computer Key Board	Car Wax

## Properties of MK-PTFE-270

**Color:** White

**Physical Form:** Free flowing powder

**Bulk Density (g/L):** 300

**Specific Gravity (g/cm<sup>3</sup>):** 2.16

**SSA (m<sup>2</sup>/g):** 3

**Particle Size D50:** < 3 micron

**Melting Point:** 325 C

**Moisture Content (wt%):** <0.1

**MK-PTFE-270 is available in 500 gram, 1 Kg and 25 Kg packs**



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