

# Polymist® XPP 400

## polytetrafluoroethylene

Polymist® XPP 400 is a white PTFE micronized powder composed of discrete particles.

Designed for use in critical engineering and high-end performance coatings and inks, Polymist® XPP 400 will improve non-stick properties and mar and abrasion resistance as well as slip and rub resistance.

- Improved abrasion, scratch and rub resistance
- Increased slip and surface lubricity
- Reduced blocking
- Improved chemical resistance
- Increased temperature resistance
- Gloss retention

Main features of Polymist® XPP 400 are:

### General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Uses	• Additive
Appearance	• White
Forms	• Powder

### Physical

	Typical Value	Unit	Test method
Average Particle Size			Internal Method
D50	3.3	µm	
D98	10	µm	
Bulk Density	400	g/l	ASTM D4895
Specific Surface Area	3.0	m <sup>2</sup> /g	Internal Method

### Additional Information

	Typical Value	Unit	Test method
Grind in Oil	2.00		NPIRI
Melt Temperature	315 to 325	°C	ASTM D3418

# Polymist® XPP 400

## polytetrafluoroethylene

---

### Processing

- Polymist® XPP 400 is used as an additive in paints and coatings where improvements in non-stick, mar resistance, slip, chemical resistance, and moisture repelling characteristics are desired.
- Polymist® XPP 400 may be used independently as an additive or in combination with polyethylene waxes. The PTFE content at the surface layer is required in order to substantially impart the properties of PTFE to the coating. Extreme environmental demands on greases, such as those experienced in the automotive industry (i.e. wide temperature ranges and heavy loads) can be accommodated by the addition of Polymist® XPP 400 micronized powders.
- Polymist® XPP 400 can be easily dispersed at room temperature and does not agglomerate at temperatures used during formulation or printing. Chemical inertness and improved temperature resistance give ink formulators the opportunity to use a variety of solvents without adverse chemical reactions.

### Storage and Handling

- The usual precautions for safe storage and handling of Polymist® XPP 400 should be taken according to material safety documentation and experience. During proper storage there will be no chemical deterioration of the Polymist® XPP 400.
- Shelf life of Polymist® XPP 400 micronized powders will vary depending upon whether the recommended storage conditions are maintained and whether the material remains free of foreign contamination during storage time (no exposure to dirt, dust, water or other chemicals). The material should remain sealed in its original containers and storage conditions should provide for protection from extremes in temperature as well as rain, snow or other wet environments (or such conditions as may damage the containers in which the product is stored).

### Safety and Toxicology

- Before using PTFE Polymist® XPP 400 micronized powders, consult the product Safety Data Sheet and follow all label directions and handling precautions.
- As with all PTFE materials, handling and processing should only be performed in well-ventilated areas. Vapor extractor units should be installed above processing equipment. Fumes must not be inhaled and eye and skin contact ought to be avoided. In the event of skin contact, wash with soap and water. In case of eye contact, flush with water immediately and seek medical help. Do not smoke in areas contaminated with powder, vapor or fumes.
- For detailed advice on waste disposal methods, see Safety Data Sheet.

### Packaging

- Polymist® XPP 400 is packaged in non-returnable 25 kg drums. Each drum has one bag liner composed of polyethylene resin.
-