

Polymist® XPP 400

Polytetrafluoroethylene

Solvay Specialty Polymers

Message:

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.

Main features of Polymist® XPP 400 are:

Improved abrasion, scratch and rub resistance

Increased slip and surface lubricity

Reduced blocking

Improved chemical resistance

Increased temperature resistance

Gloss retention

General Information			
Uses	Additive		
Appearance	White		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Specific surface area	3.0	m ² /g	Internal method
Average Particle Size			Internal method
D98	10	µm	Internal method
Primary election	3.3	µm	Internal method
Volume density	400	g/l	ASTM D4895
Oily grinding	2.00		NPIRI
Melt Temperature	315 - 325	°C	ASTM D3418
Additional Information	Nominal Value	Unit	Test Method

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.

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Recommended distributors for this material

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