Polymist® XPP 538

Polytetrafluoroethylene

Solvay Specialty Polymers

Message:

Polymist® XPP 538 a white PTFE micronized powder PTFE micronized powder composed of discrete particles.
Designed for use in critical engineering and high end performance coatings and inks, Polymist® XPP 538 will improved non-stick properties and mar and abrasion resistance as well as slip and rub resistance.
Main Polymist® XPP 538 features are:
Improved abrasion, scratch and rub resistance
Increased slip and surface lubricity
Reduced blocking
Better 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
	15.0		
Particle size-(D50/D99)	4.50	µm	Internal method
Volume density	400	g/l	ASTM D4895
Oily grinding-NPIRI	2.50		NPIRI
Melt Temperature	320 - 330	°C	ASTM D3418
Additional Information	**Nominal Value**	**Unit**	**Test Method**

Processing

Polymist® XPP 538 is used as additives in paints and coatings where improvements in non-stick, mar resistance, slip, chemical resistance, and moisture repelling characteristics are desired.

Polymist® XPP 538 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 impart the properties of PTFE to the coating, substantially. 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 538 micronized powders.

Polymist® XPP 538 can be dispersed easily at room temperature, and it doesn't 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.

Elastomeric parts containing Polymist XPP® 538 will exhibit improved lubricity, increased (hot) tear strength, better flex life and reduced friction and wear. In addition XPP 538 can be used at low concentrations to improve mold release properties. Internal or open mixers (e.g. Banbury or two-roll mixers) are normally used to allow a good distribution of Polymist® XPP 538 in the elastomeric compound. Additional fillers are normally included with Polymist® XPP 538 during the blending process. The resulting elastomeric composition can then be processed under normal conditions.

Storage and Handling

The usual precautions for safe storage and handling of Polymist® XPP 538 should be taken according to material safety documentation and experience. There will be no chemical deterioration of the Polymist® XPP 538 during proper storage.

Shelf life of Polymist® XPP 538 micronized powders will vary depending upon whether the recommended storage conditions are maintained and whether the material remains free from foreign contamination during storage time (not exposed to dirt, dust, water or other chemicals). The material should remain sealed in the original containers and storage conditions should provide for protection from temperature extremes as well as rain, snow or other wet environments (or such conditions which may damage the storage containers in which the product is stored).

Safety and Toxicology

Before using PTFE Polymist® XPP 538 micronized powders consult the product Material Safety Data Sheet and follow all label directions and handling precautions.

As with all PTFE materials, handling and processing should only be carried out 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 case 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. See Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging

Polymist® XPP 538 is packaged in 25 kg non returnable drums. Each drum has one bag liner made of polyethylene resin.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China