

Zonyl™ MP 1100

PTFE Additive

Product Information

Description

Zonyl™ MP 1100 fluoroadditive is a white, free-flowing, PTFE powder designed for use as an additive in other materials. It can be used at temperatures from -190 °C to 250 °C (-310 °F to 480 °F) and is inert to nearly all industrial chemicals and solvents. It is well suited for use in inks and coatings, where a narrow particle size distribution is desired. It is a good electrical insulator, does not absorb water, and is highly resistant to weathering. Its properties are summarized in **Table 1**.

Zonyl™ MP 1100 can impart:

- Low surface energy
- Improved lubricity and wear in plastics and elastomers
- Improved performance in lubricants under severe conditions
- Improved nonstick and antifriction properties

Zonyl™ MP 1100 tends to form clumps of particles, but it can be de-agglomerated during mixing and blending operations. Agglomerates of the resin are friable, a characteristic that helps in producing an intimate mixture with host materials. As the resin is dispersed in a solvent for particle size measurement, the agglomerates break down and may approach the 0.2 µm particle size.

Typical Applications

Zonyl™ MP 1100 is used as an additive (at approximately 1-3% by weight) in the preparation of offset, gravure, and flexographic printing inks. It improves certain properties, such as rub and slip resistance. It is used in combination with polyethylene waxes to obtain the desired degree of property modification. Due to its small particle size and narrow particle size distribution, Zonyl™ MP 1100 has

been found useful in a variety of coating systems. Typical loadings of 5-20% by weight are used in plastics and elastomers.

- Provides improvements in corrosion inhibition
- Reduces wettability
- Reduces “blocking” in inks
- Improves gloss and surface smoothness

Food Contact Compliance

Products are generally not recommended for food contact. For details and information, please contact your Chemours representative.

Safety Precautions

Before processing any fluoropolymers, read the Safety Data Sheet, available upon request from our Customer Service Group at (844) 773-CHEM/2436 in the U.S. or (302) 773-1000 outside of the U.S. Also read the detailed information in the latest edition of the “Guide to the Safe Handling of Fluoropolymer Resins,” published by the Fluoropolymers Division of The Society of the Plastics Industry (www.fluoropolymers.org) or by PlasticsEurope (www.plasticseurope.org).

Packaging

Zonyl™ MP 1100 is packaged in 20-kg (44.1-lb) drums. Eight 20-kg drums are packaged on one pallet for ease of shipping, handling, and storage.

Table 1. Typical Property Data for Zonyl™ MP 1100 Fluoroaditive

Property	Test Method	Unit	Value
Average Bulk Density	ASTM D4894	g/L	300
Melting Peak Temperature	ASTM D4894	°C (°F)	325 (617)
Average Particle Size	ASTM D4464	µm	4
Specific Surface Area	ASTM D4567	m ² /g	5–10

Note: Meets ASTM D5675, Group 1, Class 2, Grade 1.

Typical properties are not suitable for specification purposes.

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For more information, visit teflon.com/zonyl

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