

# 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 DuPont representative.

### Safety Precautions

Before processing any fluoroplastics, read the Material 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](http://www.fluoropolymers.org)) or by PlasticsEurope ([www.plasticseurope.org](http://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 <sup>2</sup> /g	5–10

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

Typical properties are not suitable for specification purposes.

**CAUTION:** Do not use Chemours materials in medical applications involving permanent implantation in the human body or contact with bodily fluids or tissues, unless the material has been provided from Chemours under a written contract that is consistent with Chemours policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your Chemours representative. You may also visit [www.teflon.com/industrial](http://www.teflon.com/industrial) to download a copy of the "Chemours POLICY Regarding Medical Applications" and "Chemours CAUTION Regarding Medical Applications." For medical emergencies, spills, or other critical situations, call (866) 595-1473 within the United States. For those outside of the United States, call (302) 773-2000.

The information set forth herein is furnished free of charge and based on technical data that Chemours believes to be reliable. It is intended for use by persons having technical skill, at their own discretion and risk. The handling precaution information contained herein is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Because conditions of product use are outside our control, Chemours makes no warranties, express or implied, and assumes no liability in connection with any use of this information. As with any material, evaluation of any compound under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

NO PART OF THIS MATERIAL MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF CHEMOURS.

For more information, visit [teflon.com/zonyl](http://teflon.com/zonyl)

For sales and technical support contacts, visit [teflon.com/industrialglobalsupport](http://teflon.com/industrialglobalsupport)

© 2015 The Chemours Company FC, LLC. Zonyl™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC. Chemours™ and the Chemours Logo are trademarks of The Chemours Company.

Replaces: K-27013

C-10014 (7/15)