

Zonyl™ MP 1400

PTFE Additive

Product Information

Description

Zonyl™ MP 1400 fluoroadditive is a white, free-flowing, PTFE powder designed for use as an additive in other materials or as a dry lubricant. 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 a good electrical insulator, does not absorb water, and is highly resistant to weathering. Its properties are summarized in Table 1.

Zonyl™ MP 1400 can impart:

- Low surface energy
- Improved lubricity and wear in plastics
- Improved performance in lubricants under severe conditions

Zonyl™ MP 1400 is used as an additive at up to 20% by weight in host materials, such as plastics, to improve nonstick performance and enhance tribological characteristics. Surface blemishes are minimized in injection molded thermoplastic parts. Plastics that can benefit include polycarbonates, polyacetals, polyamides, polyesters, polysulfides, and polysulfones.

Typical Applications

It can be added at up to 30% by weight to base elastomers to improve abrasion resistance and lower the coefficient of friction. At 1-3% by weight, it is an excellent slip enhancer for a variety of water and solvent based inks. It can also be added to plastics, such as polyacetals,

polyamides, polycarbonates, polyesters, polyimides, polysulfides, and polysulfones, at 5-20% by weight to reduce friction and wear.

- Provides anti-stick surfaces
- Reduces friction and wear in parts
- Reduces plate-out
- Increases lubrication

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 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) or by PlasticsEurope (www.plasticseurope.org).

Packaging

Zonyl™ MP 1400 is packaged in 25-kg (55.1-lb) drums. Eight 25-kg drums are packaged on one pallet for ease of shipping, handling, and storage.

Table 1. Typical Property Data for Zonyl™ MP 1400 Fluoroad additive

Property	Test Method	Unit	Value
Average Bulk Density	ASTM D4894	g/L	425
Melting Peak Temperature	ASTM D4894	°C (°F)	325 (617)
Average Particle Size	ASTM D4464	µm	10
Specific Surface Area	ASTM D4567	m ² /g	1.5–3

Note: Meets ASTM D5675, Group 1, Class 1, Grade 1 or 2.
 Typical properties are not suitable for specification purposes.

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