

Zonyl™ MP 1600

PTFE Additive

Product Information

Description

Zonyl™ MP 1600 is a white, free-flowing, PTFE powder designed for use as an additive in other materials to impart typical fluoroplastic attributes, such as non-stick, lubricity, and low friction in the final product. When added to lubricants, it can act as a thickener or enhance performance under severe conditions.

Zonyl™ MP 1600 is made by a process that allows tighter control of properties that can't be achieved by conventionally processed micronized PTFE powders. This helps ensure lot-to-lot uniformity and consistent performance. Zonyl™ MP 1600 has a very narrow molecular weight distribution. It contains less of acid end groups, so chemical incompatibility is virtually eliminated.

Typical Applications

Zonyl™ MP 1600 can be used as an additive in coatings, paints, waxes, finishes, inks, polymers, composites, and greases. By adding Zonyl™ MP 1600, the host materials have:

- Improved lubricity
- Reduced wear
- Increased gloss
- Non-stick
- Reduced blocking

The high surface area and small particle size make Zonyl™ MP 1600 an excellent thickener for grease. The absence of acid groups helps maintain a constant viscosity of the grease.

Apart from being used as an additive, Zonyl™ MP 1600 can also be used by itself in dry lubrication applications.

Zonyl™ MP 1600 is unsuitable as a molding or extrusion resin. It is not a replacement for any Teflon™ high molecular weight fluoroplastic resins.

Food Contact Compliance

Properly processed products (reaching at least 265°C [509 °F]) made from Zonyl™ MP 1600 resin can qualify for use in contact with food in compliance with FDA 21 CFR 177.1550 and European Regulation (EU) No. 10/2011. 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 1600 fluoroadditive 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.

Typical Property Data for Zonyl™ MP 1600 Fluoroaditive

Property	Test Method	Unit	Typical Value
Average Bulk Density	ASTM D4894	g/L	350
Melting Peak Temperature	ASTM D4894	°C (°F)	325 ±5 (617)
Average Particle Size	Laser Microtrac	µm	7
Specific Surface Area	Nitrogen Adsorption	m ² /g	8–12

Note: Zonyl™ MP 1600 meets the requirements of ASTM D5675, Group 1, Class 3, 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 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

For sales and technical support contacts, visit 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-26072

C-10003 (7/15)