

# FIPOLDER™ FHP02040

**High Density Polyethylene (HDPE)  
Fine Particle Powder**

## CHARACTERISTICS

- Chemical Resistance
- High Melt Point
- Superior Hardness
- Impact Resistance
- Abrasion Resistance
- Fine Particle Size
- No Residual Chemicals
- FDA Compliant

## APPLICATIONS

- Binder
- Cosmetics and Personal Care
- Fiberglass Reinforced Plastics(FRP)
- Greases and Lubricants
- Partitioning Agent
- Structured Paint matt & satin finish
- Textiles
- Miscellaneous Specialty

## CUSTOMIZE

- Particle Size
- Narrow Cut Particle Size Distribution

## Description

FIPOLDER™ FHP02040 is a high density polyethylene (HDPE) polymer in fine particle powder form. Unlike waxes, these higher molecular weight materials exhibit high toughness. FIPOLDER™ materials are pure polyethylene with broad regulatory compliance and contain no residual chemicals or additives that may interfere with some application requirements.

Property	Test Method	Unit	Test Value
Melt Index (190°C / 2.16kg)	ISO 1133 ASTM D1238	g/10 min	40.0
Density	ISO 1183-3 ASTM D1505	g/cm <sup>3</sup>	0.958
Melting Point (DSC)	ISO 3146 ASTM D3418	°C	132
Vicat Softening Point	ASTM D1525	°C	125
Mean Average Volume Weighted Particle Size	Laser Diffraction	µm	20
Maximum Particle Size	Sieve Test	Mesh / µm	270 / 53 Pass
Powder Bulk Density	ISO 60 ASTM D1895	g/cm <sup>3</sup> lb/ft <sup>3</sup>	0.24 14.98
Shore D Hardness	ISO 868 ASTM D2240		71
Morphology	Solid Rounded Particle		
Visual Appearance	Fine Naturally White Powder		
Packaging	50 lb PP woven Kraft paper bag/ PE inner bag		

The product described herein is manufactured by TWO H Chem Ltd. FIPOLDER™ is a trademark of TWO H Chem Ltd. The above data and results obtained are average values from laboratory testing and are not to be construed as specifications.

## North American Sales and Distribution



**PolyGroup Inc.**

Cincinnati, Ohio 45140  
Telephone: 877-476-5972  
Facsimile: 877-369-9205  
Email: [Info@PolyGroupInc.com](mailto:Info@PolyGroupInc.com)  
[www.PolyGroupInc.com](http://www.PolyGroupInc.com)



**TWO H Chem Ltd.**

**Polymer Powders,  
Specialty Compounds,  
Functional Films**

234, Chungmin-ro, Goesan-eup, Goesan-gun,  
Chungchungbuk-do, Korea  
Tel : 82-70-8255-7369 / Fax : 82-43-832-6763

[www.TWOHChem.com](http://www.TWOHChem.com)

**Safety and Handling Considerations**

Material Safety Data (MSD) sheets are available from TWO H Chem Ltd. and its distributors. MSD sheets are provided to help customers satisfy their own handling, safety, and disposal needs, and those that may be required by locally applicable health and safety regulations, such as OSHA (U.S.A.), or WHMIS (Canada). MSD sheets are updated regularly; therefore, please request and review the most current MSD sheets before handling or using any product. All users of our products are urged to retain and use the MSDS. The following comments apply only to materials which are used unmodified and processed according to good manufacturing practices; additives, processing aids or other materials used in formulating, fabrication and/or finishing steps have their own safe-use profile and must be investigated separately.

**WARNING: Polymer dust particles in the atmosphere are combustible and present a potential explosion hazard. Prevent dust accumulations and dust clouds. Dust layers can be ignited by spontaneous combustion or other ignition sources. Keep away from heat, sparks, flame and all other ignition sources. Keep container closed. Clean up dust accumulations. For proper safety of personnel and property, the container should be emptied in compliance with NFPA 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries." Processes using spray application or fluidized bed operation should be in accordance with NFPA 33, "Standard for Spray Application Using Flammable and Combustible Materials." Exercise caution when dispensing this product in or around combustible environments as the possible occurrence of a static discharge could ignite dust or vapors and cause a fire or explosion. Evaluate the need for grounding of equipment and container. Modification or use of the product in a way that enhances the dispersion of the particles in the atmosphere could significantly increase the potential for an explosion.**

**NOTICE REGARDING PROHIBITED USE RESTRICTIONS:** TWO H Chem Ltd. and its distributors do not recommend and will not knowingly provide any of its products, including samples, for use as: Components of, or packaging for, tobacco products; Components of products where the end product is intended for human or animal consumption; In any application that is intended for any internal contact with human body fluids or body tissues; As a critical component in any medical device that supports or sustains human life; In any product that is designed specifically for ingestion or internal use by pregnant women; and in any application designed specifically to promote or interfere with human reproduction.

**Disclaimer:** No freedom from any patent owned by TWO H Chem Ltd. or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. TWO H Chem Ltd. and its distributors assumes no obligation or liability for the information in this document. TWO H Chem Ltd. and its distributors do not guarantee testing accuracy and will make no guarantee of product performance, safety or suitability for an application, either expressed or implied, when used alone or in combination with other products or materials. TWO H Chem and its distributors assumes no obligation or liability for any advice furnished and/or damage or injury sustained as a result of the use of its products. **NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE ARE EXPRESSLY EXCLUDED.**

Issue date : June 28, 2019 (Legislate)  
Revision date : July 02, 2019 (1st)

▶▶▶ **North American  
Sales and Distribution**



**PolyGroup Inc.**

Cincinnati, Ohio 45140  
Telephone: 877-476-5972  
Facsimile: 877-369-9205  
Email: [Info@PolyGroupInc.com](mailto:Info@PolyGroupInc.com)  
[www.PolyGroupInc.com](http://www.PolyGroupInc.com)



**TWO H Chem Ltd.**

**Polymer Powders,  
Specialty Compounds,  
Functional Films**

234, Chungmin-ro, Goesan-eup, Goesan-gun,  
Chungchungbuk-do, Korea  
Tel : 82-70-8255-7369 / Fax : 82-43-832-6763

[www.TWOHChem.com](http://www.TWOHChem.com)