

TECHNICAL DATA SHEET

CHARACTERISTICS

- Superior Mechanical Strength and Toughness
- Mild Abrasiveness with Soft Feel
- Resistance to Water Absorption
- Heat Resistance
- Scratch / Mar / Rub Resistance
- Resistance to Acids, Alkalis, Inorganic Salt Solutions and Many Other Solvents

PROPERTY

- High Molecular Weight
- Solid Rounded Shape
- Hydrophobic
- High Hardness
- Chemical Resistance

APPLICATIONS

- Paints and Coatings
- Cosmetics
- Personal Care
- Textiles
- Miscellaneous Specialty

CUSTOMIZE

- Particle Size
- Narrow Cut Particle Size Distribution



TWO H Chem Ltd.

FPP Series

PROPOLDER™ FPP4020

Polypropylene (PP) Homopolymer Fine Particle Powder

Description

PROPOLDER™ FPP4020 is polypropylene (PP) homopolymer in fine particle powder form. Unlike waxes, these higher molecular weight materials exhibit high toughness. PROPOLDER™ homopolymer PP materials are pure polypropylene 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 Flow Rate (230 °C / 2.16kg)	ISO 1133 ASTM D1238	g/10 min	34.0
Density	ISO 1183-3 ASTM D1505	g/cm ³	0.90
Melting Point (DSC)	ISO 3146 ASTM D3418	°C	166
Vicat Softening Point	ASTM D1525	°C	151
Yield Strength	ASTM D638	kg/cm ²	340
Flexural Modulus	ASTM D790	kg/cm ²	16,000
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 ³ lb/ft ³	0.24 14.9
Hardness	ASTM D785	R Scale	105
Morphology	Solid Rounded Particle		
Visual Appearance	Fine Naturally White Powder		
Packaging	35 lbs. PP woven Kraft paper bag / PE inner bag		

The product described herein is manufactured by TWO H Chem Ltd. PROPOLDER™ 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
Email: Info@PolyGroupInc.com
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

Safety and Handling Considerations

Material Safety Data (MSD) sheets for 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.

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Issue date : September 27, 2017 (Legislate)

Revision date : June 28, 2018 (1st)

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