

## TECHNICAL DATA SHEET



# FloorGrain™ Medium SHP4080-3

Thermoplastic Polymer Powder  
for Non-slip & Structural Floor Paints

## CHARACTERISTICS

- Chemical Resistance
- Superior Hardness
- Impact Resistance
- Scuff and Abrasion Resistance
- Narrow Particle Distribution

## APPLICATIONS

- Paints and Varnishes
- Structured Paint
- Industrial Epoxy, Polyurethane Flooring
- Road marking Paint

## CUSTOMIZE

- Particle Size
- Narrow Cut Particle Size Distribution

## Description

FloorGrain™ Medium SHP4080-3 is a thermoplastic high molecular weight polymer in fine particle powder form. These unique materials exhibit very high toughness. FloorGrain™ powders are well suited for use in structural paints and coating applications that require anti-slip characteristic, structural performance, or satin and matt finish effects.

Property	Test Method	Unit	Test Value
Melt Index (190°C / 2.16kg)	ISO 1133 ASTM D1238	g/10min	< 0.1
Density	ISO 1183-3 ASTM D1505	g/cm <sup>3</sup>	0.950
Mean Average Volume Weighted Particle Size	Laser Diffraction	µm (Tyler Mesh)	200 ~ 250 (35 ~ 80)
Powder Bulk Density	ISO 60 ASTM D1895	g/cm <sup>3</sup> lb/ft <sup>3</sup>	0.45 28.1
Tensile Strength	ASTM D638	kg/cm <sup>2</sup>	> 300
Elongation	ASTM D638	%	> 500
Visual Appearance	Naturally White Powder		
Dosage	5~7 % by weight of the paint and mix.		
Packaging	0.5 lbs. and 2.5 lbs. Aluminum Zipper Bag 20 kg. PP Woven Kraft Paper Bag / PE Inner Bag		

The product described herein is manufactured by TWO H Chem Ltd. FloorGrain™ 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.



Polymer Powders,  
Specialty Compounds,  
Functional Films

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**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.**

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