

# Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



## TECHNICAL DATA SHEET

### SODIUM HEXAMETAPHOSPHATE (MICRONIZED)

#### PRODUCT CLASSIFICATION

Item	Description
Chemical Name	Sodium Hexametaphosphate
CAS No.	10124-56-8
HS Code	2835.39.00
EINECS No.	233-343-1
Molecular Formula	(NaPO <sub>3</sub> ) <sub>6</sub>
Molecular Weight	~611.77 g/mol
Synonyms	SHMP, Sodium Polyphosphate, Glassy Phosphate

#### PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White micronized powder	Visual
Odor	Odorless	Sensory
Assay (as P <sub>2</sub> O <sub>5</sub> )	≥ 68%	Titration
Moisture	≤ 1.0%	Oven drying at 105 °C
pH (1% solution)	5.8 – 7.3	pH meter
Specific Gravity	~2.4 – 2.6	Pycnometer
Bulk Density	0.70 – 1.00 g/cm <sup>3</sup>	Tapped Density
Water Solubility	Highly soluble	Visual
Particle Size (D50)	3 – 8 µm	Laser Diffraction
Particle Size (D90)	< 25 µm	Laser Diffraction
Whiteness	≥ 90%	Reflectance

➤ The commercial product specification may include only a selection of the properties listed above; this additional data is provided for general technical reference.

#### HEAVY METALS (EU REGULATION 10/2011 – CONTENT LIMITS IN ADDITIVES)

Element	Typical Limit	Test Method
Lead (Pb)	≤ 2 ppm	ICP, AAS
Cadmium (Cd)	≤ 1 ppm	ICP, AAS
Mercury (Hg)	≤ 1 ppm	ICP, CV-AAS
Arsenic (As)	≤ 1 ppm	ICP, AAS

#### USES / APPLICATION (MICRONISED / SOLID-STATE RELEVANT)

Industry	Application	Use
Polyolefins (PE, PP)	Functional additive	Improves dispersion of fillers and pigments

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PVC Processing	Processing aid	Enhances melt uniformity and filler distribution
Engineering Plastics	Dispersing aid	Improves homogeneity of mineral-filled systems
Masterbatch & Compounds	Carrier aid	Enhances dispersion and process stability
Rubber Processing	Functional Additive	Improves filler incorporation and consistency
Coatings (Powder Systems)	Dispersing aid	Improves pigment distribution and surface finish
Adhesives & Sealants (Solid Systems)	Rheology modifier	Improves formulation stability
Functional Fillers & Mineral Systems	Surface modifier	Enhances compatibility and dispersion
Powder Processing & Dry Blends	Anti-caking agent	Improves flowability and storage stability
Polymer-Paper / Composite Systems	Dispersing aid	Improves filler dispersion and uniformity in composite structures

## US FDA 21 CFR LISTING

CFR Section	Title / Description
21 CFR 182.6760	Generally recognized as safe (GRAS) substance under specified conditions
21 CFR 176.170	Permitted for use in paper and paperboard in contact with food under specified conditions

Compliance with applicable use levels, migration limits, and end-use conditions must be verified by the user.

## DISCLAIMER

This product is intended for industrial use in polymer, coating, rubber, adhesive, and specialty chemical applications. It is not recommended for pharmaceutical or direct food use unless separately certified. Compliance with food-contact and regional regulatory approvals must be verified by the user. Values above are typical for general reference and not binding specifications unless explicitly confirmed in writing.