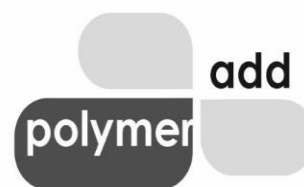


Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

BARIUM SULFATE (SYNTHETIC / BLANC FIXE) MICRONIZED

PRODUCT CLASSIFICATION

Item	Description
Chemical Name	Barium Sulfate (Synthetic / Blanc Fixe)
CAS No.	7727-43-7
HS Code	2833.27.00
EINECS No.	231-784-4
Molecular Formula	BaSO ₄
Molecular Weight	~233.39 g/mol
Synonyms	Blanc Fixe, Synthetic Barium Sulfate, Precipitated Barium Sulfate, Pigment White 21

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White micronized powder	Visual
Odor	Odorless	Sensory
Purity (BaSO ₄)	≥ 98.0%	Gravimetric / XRF
Moisture	≤ 0.5%	Oven drying at 105 °C
pH (10% slurry)	6.0 – 8.5	pH meter
Specific Gravity	~4.3 – 4.5	Pycnometer
Oil Absorption	10 – 18 g/100 g	ASTM D281
Bulk Density	0.70 – 1.10 g/cm ³	Tapped Density
Particle Size (D50)	1 – 3 μm	Laser Diffraction
Particle Size (D90)	< 10 μm	Laser Diffraction
Whiteness	≥ 95%	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

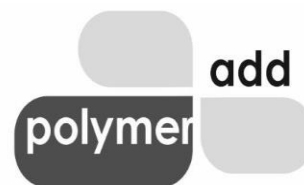
USES / APPLICATION (MICRONISED / SOLID-STATE RELEVANT)

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Industry	Commercial Application / Uses
Polyolefins (PE, PP)	Functional filler for improved density, stiffness, dimensional stability, and surface finish
PVC Processing	Extender and reinforcing filler; improves surface smoothness, rigidity, and processing stability
Engineering Plastics	High-density filler for improved dimensional control and consistent surface appearance
Masterbatch & Compounds	White inorganic filler for controlled loading, improved dispersion, and cost optimization
Rubber Processing	Inert filler to improve density, processing consistency, and surface properties
Coatings (Powder Systems)	Extender pigment / filler for whiteness, opacity, and controlled gloss
Adhesives & Sealants (Solid Systems)	Filler for body, density control, and formulation stability
Functional Fillers & Mineral Systems	Chemically inert filler for balance of density, whiteness, and particle packing
Powder Processing & Dry Blends	Free-flowing fine mineral filler with good handling and dosing consistency
Polymer-Paper / Composite Systems	Mineral filler for opacity, weight build, and improved surface characteristics

US FDA 21 CFR LISTING

CFR Section	Title / Description
21 CFR 175.105	Listed for certain adhesive-related food-contact applications
21 CFR 175.300	Listed for resinous and polymeric coatings under specified conditions
21 CFR 176.170	Listed for components of paper and paperboard in contact with aqueous and fatty foods under specified conditions
21 CFR 177.2600	Listed as a filler in rubber articles intended for repeated use
21 CFR 178.3297	Listed as a colorant / pigment for polymers

Barium Sulfate is included in FDA's Inventory of Food Contact Substances listed in 21 CFR under the names **Barium Sulfate** and **Blanc Fixe**. The inventory points to 21 CFR 175.105, 175.300, 176.170, 177.2600, and 178.3297, and the eCFR text also shows Barium Sulfate in the permitted substance lists for rubber fillers and polymer colorants. ([HFPAPExternal](#))

Compliance with applicable use levels, extraction / migration requirements, and end-use conditions must be verified by the user. ([HFPAPExternal](#))

DISCLAIMER

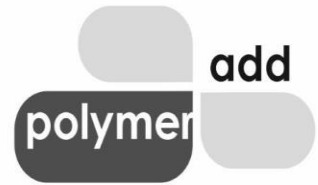
This product is intended for industrial use in polymer, coating, rubber, adhesive, and specialty chemical applications. It is not recommended for pharmaceutical or direct food use unless separately certified. Compliance with food-contact and regional regulatory approvals must be verified by the user.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

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above are typical for general reference and not binding specifications unless explicitly confirmed in writing.

Month of Creation: July 2025

Month of Review: July 2027

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