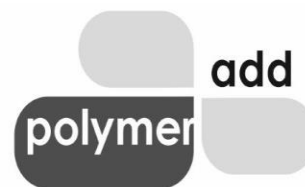


Polymer Add (Thailand) Co.,Ltd.

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MICRONISED TALC

KEY INDUSTRIAL APPLICATIONS

1) Identification & Chemical Information

Item	Details
Mineral Name	Talc
Chemical Description	Hydrated magnesium silicate
Typical Chemical Formula	$Mg_3Si_4O_{10}(OH)_2$
Common Industry / Trade Synonyms	Talc powder; Magnesium silicate

2) Physical and Chemical Properties

Property	Description
Appearance	White to off-white fine powder
Density	$\sim 2.7\text{--}2.8\text{ g/cm}^3$
Hardness (Mohs)	~ 1
Thermal Stability	Stable under polymer and coating processing temperatures
Solubility	Insoluble in water
Particle Size Distribution (Micronised Grade)	D50: $\sim 5\text{--}10\text{ }\mu\text{m}$ D90: $< 20\text{ }\mu\text{m}$ D99: $< 30\text{ }\mu\text{m}$
Particle Morphology	Lamellar / plate-like

3) Application-Specific Technical Discussion

3.1 Specific Benefits

Micronised talc is selected across polymer, coating, paper, and ceramic applications where controlled reinforcement, dimensional stability, surface quality, and processing consistency are required.

- Improved stiffness and dimensional stability in polymer systems
- Enhanced surface smoothness and appearance
- Improved thermal resistance and shape retention
- Stable processing behaviour at high filler loadings

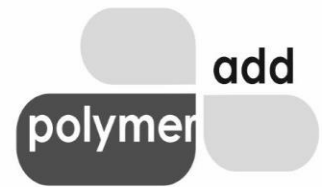
3.2 End Uses

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- Polypropylene (PP) and polyolefin compounds
- Automotive plastic components
- Paints and industrial coatings
- Paper and paperboard coatings
- Ceramics and technical ceramic products

3.3 Key Physical, Chemical & Performance Parameters

- Lamellar particle morphology
- Low hardness enabling easy processing
- Chemical inertness
- Thermal stability
- Fine, controlled particle size distribution

3.4 Known Limitations

- Limited impact strength improvement in polymers
- Performance dependent on dispersion quality
- Not suitable where high opacity or whiteness is critical without surface treatment

4) Regulatory Note

Regulatory status depends on grade, purity, and intended use. Food-contact and regional compliance listings, where applicable, are addressed in separate regulatory documentation.

5) Disclaimer

Information provided for technical reference only.

No warranty of fitness for a particular purpose.

User responsible for validation, trials, and regulatory compliance.

6) Creation and Review

Creation: January 2026

Next Technical Review: January 2028

END OF ARTICLE