

Product Data Sheet

Talc — Plastic Grade

Description

Description	Plastic grade talc is a fine, high-purity hydrated magnesium silicate used as a reinforcing filler in polymers. Its platy particle morphology increases stiffness, heat-deflection temperature, and dimensional stability in polypropylene and other thermoplastics.
Applications	Used in polypropylene compounds, automotive plastics, masterbatch, packaging, and engineering thermoplastics as a reinforcing/functional filler.
Used In	Polypropylene, automotive plastics, masterbatch, packaging

Key Benefits

- Reinforcing filler – increases stiffness and rigidity
- Improves heat-deflection temperature and dimensional stability
- Fine, controlled particle size for smooth dispersion
- High whiteness and low grit for quality compounds
- Low moisture for polymer processing

Chemical Analysis & Physical Data

Chemical Composition

Parameter	Specification
Magnesium Oxide (MgO)	30% – 32%
Silica (SiO ₂)	60% – 63%
Calcium Oxide (CaO)	Max. 0.6%
Iron Oxide (Fe ₂ O ₃)	Max. 0.5%
Loss on Ignition (LOI)	5% – 7%
Talc Content	Min. 92%

Physical Properties

Property	Specification
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Form	Micronised powder
Typical D50	To buyer requirement (e.g. 2–10 µm)
Brightness (ISO)	88 – 93
Bulk Density	Approx. 0.3 – 0.6 g/cm ³
Moisture	Max. 0.5%

* Particle size to buyer requirement. Test methods available upon request.

Packaging

- 25 kg / 50 kg PP / HDPE woven bags
- 1 MT / 1.25 MT Jumbo Bags (FIBC)
- Loose in bulk for large industrial / export orders
- Custom packaging available on request.

Storage & Handling

- Store in a dry, covered area protected from moisture
- Keep bags sealed to maintain whiteness and prevent contamination
- Avoid dust generation; provide adequate ventilation
- Handle with appropriate PPE to control dust

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Specifications vary by mine and lot; figures are typical values. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications.