

DIPHENYL TEREPHTHALATE (DPT)

HIGH-MELTING SOLID PLASTICIZER / FUNCTIONAL POLYMER MODIFIER

Diphenyl Terephthalate (DPT) is an aromatic ester-based high-melting solid plasticizer and functional polymer modifier used in polymer systems requiring thermal stability, permanence, and controlled long-term performance.

Its rigid aromatic structure and high melting point support use in high-temperature PVC compounds, engineering thermoplastics, and specialty formulations where stable internal modification is desired.

Supplied in micronised solid form, DPT enables uniform dispersion, stable processing behaviour, and consistent functional response across demanding compounding applications.

Primary Uses & Commercial Applications

Flexible & Semi-Rigid PVC Compounds

Applied as a **solid plasticizer or co-plasticizer** to support controlled flexibility, heat resistance, and dimensional retention in elevated-temperature PVC formulations.

Engineering Thermoplastics

Used as an **internal modifier** in engineering polymers where permanence, low volatility behaviour, and thermal stability are key formulation objectives.

Styrenic, ABS & Filled / FR Systems

Functions as a **stress-distribution and compatibility modifier** in filled compounds, supporting balanced stiffness-toughness performance.

High-Temperature & Electrical Polymer Applications

Selected for polymer components exposed to continuous thermal stress, where long-term functional stability is required.

Functional Role in Polymer Formulations

- High-melting **solid aromatic plasticizer**
- Permanent internal modification with **low volatility behaviour**
- Partial or full replacement for **liquid plasticizers**
- Supports stable performance in **dry-blend and masterbatch systems**

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Why Micronised DPT

Micronisation improves dispersion efficiency and dosage precision, enabling consistent performance in both melt compounding and dry-blend processing.

Application Scope / Usage Note

Performance depends on formulation design, processing conditions, and compatibility with other additives. Application-specific validation is recommended.

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