



PROFILE

Nano Pouyesh Kimiya Co. (NPK) as a manufacturer & trading company founded in 2009 is engaged in production, R&D, marketing, technical services and commercial activities. NPK Company has a great technological and commercial relationship with Iranian Petrochemicals. We have supplied equipment, catalysts, additives, solvents and peroxides for petrochemical, oil and gas industrial chemistry from Germany, Italy, Netherland, Romania, Turkey, Japan, Korea, China, India, etc.

Today NPK is one of the best suppliers of chemicals like:

- ✓ PPA active agents (representation of Lanpoly company)
- ✓ Titanium Dioxide
- ✓ PE cling masterbatch
- ✓ Purge compound
- ✓ PP peroxide masterbatch rheology (MFI) modifier
- ✓ Erucamide slip active agent
- ✓ Anti-Fog active agent and PE base masterbatch
- ✓ Optical brightener active agent and PE base masterbatch
- ✓ Anti-UV active agent
- ✓ Anti-Oxidant active agent
- ✓ Dispersing active agent
- ✓ TPE-O Vistamaxx 6202 (propylene-based elastomer)
- ✓ PTFE Anti-dripping Agent

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PTFE ANTI-DRIPPING AGENT

INTRODUCTION

PTFE Anti-dripping agent is mainly used in plastic materials that require flame retardant grade up to V0. It can prevent melting dropping and improve flame retardant performance. It can still meet the requirements of standard UL V-0 when reducing the amount of flame retardant, and at the same time reduce costs and enhance product competitiveness. High molecular weight PTFE (molecular weight of about 4 million to 5 million) fibrosis under the shear force of the screw to form a network structure, thus playing a role in anti-dripping.



ANTI-DRIPPING AGENT TYPES

There are three main types of anti-dripping agents:

- Emulsion type
- Coated Type
- Pure powder type

It is pure PTFE particles. The dispersion and fluidity of PTFE can be improved by sintering the surface of the particles. The advantage of pure powder anti-dripping agent is that the content of PTFE is 100%, and it can be added in a large amount without any other impurities.

ANTI-DRIPPING AGENT APPLICATIONS

Compounds for:

- TV and computer housing
- electric parts
- automobile interior
- consumer goods



شرکت نانو
پویش کیمیا

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SUPPLIED ANTI-DRIPPING AGENT

Lanpoly (China), the producer of these Anti-dripping agents, won the title of Chinese National High-tech Enterprise in 2017.

Two codes of Anti-dripping agent are:

- **FD3150**

LANPOLY FD3150 is series of chemically modified PTFE. By addition it into thermoplastic compound formula, the plastics will have enhanced anti-dripping property to meet UL V0 and V1 standard. At one time, CTI will be enhanced in special material. It is a kind of flame retardant synergistic agent and can be coordinated with various FR, including P, Br, Si, F, Sulfonate, N etc.

Compared with pure PTFE, FD3150 has excellent dispersity and easy handling features.

- **FD3250**

LANPOLY FD3250 is pure PTFE, free of PFOA, the primary particle size is 0.3um and the secondary particle size is 300um. Mainly used in engineering plastics flame retardant to prevent dripping. It is a kind of flame retardant synergistic agent and can be coordinated with various FR, including P, Br, Si, F, Sulfonate, N etc.

Code	Applications
FD3150	<p>Apply to many kinds of thermoplastic compound formula, including PBT, ABS, PC, PC/ABS, HIPS, PA and alloys, details are as follow:</p> <p>PBT (0.2-0.5%), upgrade the flame retardant rating and CTI;</p> <p>ABS (0.1-0.2%), reduce the amount of bromide (Br) and antimony (Sb) in flame retardant system, improve impact strength;</p> <p>PC (0.1-0.5%), prevent dripping, upgrade the flame retardant rating;</p> <p>PC/ABS (0.2-0.3%), compound with BDP/RDP, prevent dripping, upgrade the flame retardant rating;</p> <p>HIPS (0.2-0.3%), prevent dripping, upgrade the flame retardant rating;</p> <p>PA (0.2-0.3%), prevent dripping, upgrade the flame retardant rating;</p> <p>PE/PP (0.2-0.5%), prevent dripping, upgrade the flame retardant rating.</p>
FD3250	<p>Apply to PC, ABS, PC/ABS, PBT, HIPS;</p> <p>Be used in concert with bromine (Br), phosphorus-nitrogen and silicon flame retardant</p>