





Hangzhou Polyful Advanced Material Co., Ltd.

杭州聚丰新材料有限公司

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Company Profile

Hangzhou POLYFUL Advanced Material Co., Ltd. ("POLYFUL") is a high-tech company specializing in the research, development, production, and sales of high-end polymer products.

Established by the founding team of a listed company, POLYFUL has launched in-depth cooperation with the national key laboratory of Zhejiang University.

Aimed at the polymer materials sector, it is focused on the development of high-performance products in 5G communications, new energy vehicles, food and healthcare, and environmental protection and biodegradation. POLYFUL is primarily engaged in high-end modified materials such as modified polyolefins and engineering plastics, as well as special polymers, including biodegradable resin and high-performance electronic chemical materials, with product quality reaching the leading level in China.

Positioning and Strengths

Positioning: A technology-driven advanced materials company focused on high-end polymers

Strengths: R&D by university teams, support of national base, cost effectiveness, environmentally friendly, customization



Honors and Qualifications

Since its inception in 2018, POLYFUL has won a range of honors, including China High-tech Enterprise, China's National Science and Technology Small and Medium Enterprise, High-tech Research and Development Center (Industrial) of Local Enterprise, and Local Eyas Enterprise.

It has also obtained the certifications of IATF16949 international automotive quality management system and ISO9001 quality management system.

Experiment&Production Equipment





Product Certifications

























Enterprise Honors























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Quality Technical Index

Appearance: white powder

Melting point: 160°C

Volatiles: ≤ 0.5% (WT)

Adding method

There are two ways of application in plastics processing:

- 1. Adding stiffening nucleating agents to the resin for direct mixing, injection or extrusion molding;
- 2. Mixing the product with resin and other additives to make masterbatches, and then blended with ordinary polypropylene.



POLYPROPYLENE STIFFENING NUCLEATING AGENT



Overview

This product is an economic and efficient stiffening nucleating agent of large molecules, which can significantly increase the crystallization velocity of polypropylene, reduce its crystallization size, shorten its molding cycle, and effectively improve the rigidity, impact resistance and surface flatness of polypropylene products. Compared with the small molecule nucleating agents sold on the market, this product is non-toxic, odorless, dust-free, with good stability. It has no small molecule precipitates, fully compatible with polypropylene, and easy to disperse, and there is no precipitates migration from products.

Features



Process with environmental protection

The state of matter is 300 mesh powder Little dust will appear when added



Significant stiffening

Increase the rigidity of polypropylene significantly
Also improve impact resistance and heat deflection temperature



Good compatibility

This product which is based on a polypropylene carrier is fully compatible with it With no agglomerate in the mixing process
Uniformly dispersed with no small molecule precipitation



Non-toxic and harmless

No waste water and exhaust gas emission during production Products passed the inspection of hygiene standard of food packaging



Easy processing

Low melting point Fast molding



Simple process

The product can be directly blended with polypropylene pellets There is no need to pre-mix with white oil And it does not need to de-volatilize small molecules

POLYPROPYLENE STIFFENING NUCLEATING AGENT

Parameters

| Grade | Appearance | Particle size | Recommended additive amount % | Functions | For resins |
|---------|-----------------|------------------|-------------------------------|--|-----------------------|
| CS-6993 | White powder | 300 mesh | 0.1-0.3% | Increase bending Increase crystallization temperature | Homopolymerized pp |

Performance comparison:

| ltem | Unit | Test method | Base material comparison | CS-6993 |
|--|-------|--------------------|-----------------------------|---------|
| Bending strength | МРа | | 39 | 51.9 |
| Bending modulus | МРа | GB/T 9341-2008 | 1464 | 2020 |
| Extension intensity | MPa | GD /T 10 40 2 2005 | 34.4 | 40.5 |
| Tensile elongation | % | GB/T 1040.2-2006 | 19 | 15.9 |
| Notch impact strength of cantilever beam | kJ/m² | GB/T 1843-2008 | 3.2 | 3.2 |