



# POLYFUL

## ADVANCED MATERIAL

Hangzhou Polyful Advanced Material Co., Ltd.

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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



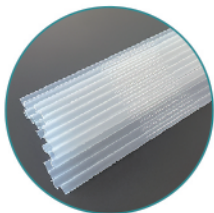
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## Application



### Film-and-bag-specific modified resin

It can be processed into shopping bags, courier bags, garbage bags, disposable gloves, agricultural mulch film by blown film process.



### Extrusion modified resin

It can be processed into fully biodegradable disposable straws by extrusion process.



### Blister modified resin

It can be processed into fully biodegradable disposable dinner plates, fully biodegradable disposable water cups by casting and blister process.



### Injection molding modified resin

It can be processed into fully biodegradable disposable knives, forks and spoons by injection molding process.

## FULLY BIODEGRADABLE RESIN



## Overview

Taking fully biodegradable materials including PLA and PBAT as the main raw materials, POLYFUL has developed a wide range of fully biodegradable modified resins aimed at various application scenarios. By different processing methods, they are divided into materials specific for films and bags, injection molding and shaped processing. POLYFUL's modified resins are all in line with fully biodegradable standards including GB/T, EN, and ASTM, with some of them meeting food contact requirements.

POLYFUL has registered with the FDA in the United States, focusing on the healthy, environmentally friendly and fully biodegradable materials for customers from home and abroad.

## Features



Easy forming process



Easy coloring



Excellent mechanical properties



Natural antistatic



Safe, environmentally friendly and non-toxic



Food-grade contact



Fully biodegradable

## Qualification



## Category

Category	Grade	Product description	Applications	Corresponding processes
Fully degradable shopping bags Modified resins	DP-8123	Mineral powder filling	Shopping bags, waistcoat pockets, garbage bags, etc.	Blown film
	DP-8126			
	DP-8128			
	DP-8134	Starch filling		
	DP-8148			
DP-8158				
Fully degradable courier bag modified resin	DP-8122 WTH	Triple extrusion	Courier bags, logistics packaging bags, etc.	
	DP-8124 WTH			
	DP-8122 NCH			
Fully degradable agricultural mulch film modified resin	DP-8110	Induction period < 60 days	Agricultural mulch film	
	DP-8111	60 days ≤ Induction period < 90 days		
	DP-8112	90 days < Induction period ≤ 120 days		
	DP-8113	Induction period > 120 days		
Fully degradable disposable gloves modified resin	DP-8222	High tensile strength	Disposable film gloves	Blown film and casting
Fully degradable straw modified resin	DP-5122	Pipe bending use only	Bent straws	Extrusion
	DP-5123	Straight pipe use only	Straight straws	
	DP-5140	Transparent	Transparent straight straws	
	DP-5525	High temperature resistant	High temperature resistant straight straws	
Fully degradable injection molding modified resin	DP-7123	High toughness injection molding	Disposable knife, fork and spoon	Injection molding
	DP-7124	Thin-walled injection molding	Thin-walled injection molded products	
	DP-7125	General injection molding	Disposable tableware	
	DP-7126	Out-of-mold crystal	Disposable knife, fork and spoon	
	DP-7525	Heat resistant	Disposable tableware	
Fully degradable casting sheet modification resin	DP-9325	General-purpose sheets	Blister products (eg. cup lids, meal boxes)	Casting and blistering
	DP-9326	Non-food contact sheets	The outer packaging of tools or toys	
	DP-9340	Transparent sheets	Transparent blister lids, blister cups, etc.	
	DP-9525	High temperature resistant sheets	Heat resistant nursery cups, etc.	

\*All modified resins conform to national full degradation standards and related national standards