



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



Enterprise Honors

Product Certifications



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Application



Automobile materials

- Enable lightweight of automobile to achieve fuel saving and high speed, which can be used for interior and exterior decorative parts or functional structural parts.
- Applied for different parts such as interior or exterior parts of the engine compartment by adjusting weather resistance and flame retardance.



Electrical & Electronics materials

- Used as housing materials, cladding materials, mechanical materials and insulating materials for electrical and electronics equipment and components through modification to improve behavior of electricity.
- Enhance performance of flame retardance and high temperature resistance, which can be used in the parts working in harsh environment.



Home appliance materials

- Tailor for customers with solutions for recycling engineering plastics
- Focus on the research and development of special materials which use plastic to replace steel and copper, making efforts in improving the function, appearance and lightweight property comprehensively.



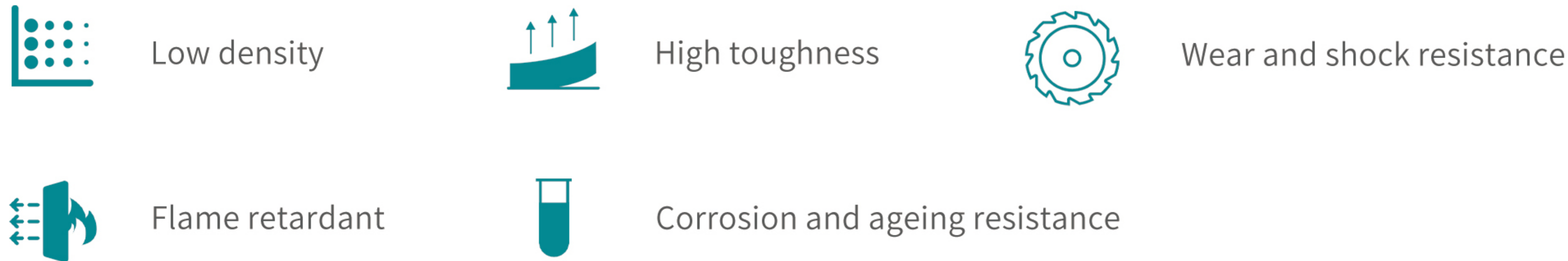
MODIFIED ENGINEERING PLASTICS



Overview

POLYFUL's modified engineering plastics are modified materials built upon general-purpose plastics and engineering plastics by adding proper performance additives, thus improving their mechanical properties and flame retardant grade and other related performance indexes. The modified plastics has strength similar to steel, as well as the advantages of low density, high toughness, corrosion resistance, high impact resistance, wear and shock resistance, flame retardant, and ageing resistance, which can be widely used in many fields such as automobile manufacturing, household appliances, rail transportation, construction consumables, etc.

Features



Category

| Product category | Product grade | Modified direction | Main application |
|------------------|---------------|---|---|
| Modified PA6 | EN-1 series | Halogen-free, red phosphorus-free flame retardant, high heat resistance | Auto parts, mechanical parts, housing of battery pack, outdoor products, engineering parts and other products |
| Modified PA66 | EN-2 series | High wear resistance, self-lubrication, high rigidity | Automobile industry, instrument housing, nylon ties and other products requiring high impact resistance and strength |
| Modified PP | PO-3 series | High strength, high heat resistance, high gloss | Housing or semi-structural parts of electric rice cooker, hair dryer, boiling water boiler and other home appliances |
| Modified PBT | CA-5 series | Flame retardant, high rigidity, high heat resistance | Household appliances, electrical wire connectors, structural parts for autos, electricity meter terminals and other products |
| Modified ABS | CA-7 series | High heat resistance, low emissivity | Rear view mirrors, air purifier housings, purifier ventilation panels and other products |
| Modified PC | CA-8 series | Halogen-free flame retardant, high gloss, high transmission | Automobile parts, lighting components, backplanes of LED display board, monitor housings, curtain walls and other products |
| Modified PC/ABS | CA-9 series | Flame retardant, stiffening | Bumpers, grilles, center consoles, bus panels, low-voltage electrical switches, accessories of new energy charging system, battery housings, power supply drive housings and other products |

Qualification

Products of modified engineering plastics series conform to the IATF 16949 automotive parts and production quality certification, the US UL certification, and the ISO 9001 specifications, and have obtained the corresponding certifications and test reports.



The image shows three overlapping UL Prospector datasheets for Hangzhou POLYFUL Advanced Material Co Ltd. The top sheet is for CA-8120, the middle for CA-8142, and the bottom for CA-5246. Each sheet includes a table of mechanical and electrical properties and a list of test methods.

| Test Name | Test Method | Units | Thk (mm) | Value |
|--------------------------------|-----------------|-------------------|------------|------------------------------|
| Flammability | IEC 60695-11-10 | Class (color) | 1.0 3.2 | V-0 (NC, BK) V-0 (NC, BK) |
| Glow-Wire Flammability (GWFI) | IEC 60695-2-12 | °C | - | - |
| Glow-Wire Ignition (GWIT) | IEC 60695-2-13 | °C | - | - |
| IEC Comparative Tracking Index | IEC 60112 | Volts (Max) | - | - |
| IEC Ball Pressure | IEC 60695-10-2 | °C | - | - |
| ISO Heat Deflection (1.80 MPa) | ISO 75-2 | °C | - | - |
| ISO Tensile Strength | ISO 527-2 | MPa | - | - |
| ISO Flexural Strength | ISO 178 | MPa | - | - |
| ISO Tensile Impact | ISO 8256 | kJ/m ² | - | - |
| ISO Izod Impact | ISO 180 | kJ/m ² | - | - |
| ISO Charpy Impact | ISO 179-1 | kJ/m ² | - | - |