KINGFA

SHAPE A BETTER LIFE

Electrical & Electronic (E&E) Material Solutions



Kingfa E&E Portfolio

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Kingfa E&E Portfolio Overview

Kingfa E&E Portfolio

1 Electrical Distribution & Protection



Circuit breakers, contactors, protection & switching

2 Motors & Electromechanical



Compressors, micro motors, appliances & fans

4 Switching, Control, & Component Solutions



Relays, capacitors, structural components & connectors

3 Connectivity



Appliance, industrial, IT/communication, automotive & new energy

Market
Identify end markets and customer needs

→

Application
Define component and system use cases

→

Performance Requirements
Ensure materials meet critical safety, reliability, and durability standards

→

Kingfa Material Solution
Match the right material platform to performance and processing needs

→

Grade
Select the optimal grade for each application

Engineered for Safety | Built for Performance | Sustainable by Design

Kingfa E&E Portfolio

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Portfolio Summary

Market	Applications (Examples)	Key Performance Requirements	Kingfa Material Solutions (Platforms)
1  **Electrical Distribution & Protection**	Circuit breakers Contactors Protection Switching	• Flame retardancy (V-0) • High heat & CTI • High impact strength • Dimensional stability	PBT • PA6 • PA66 • PC PET • PPS • PA6T • LCP
2  **Motors & Electromechanical**	Compressors Micro motors Appliances Fans	• High strength & rigidity • Heat resistance • Low noise & vibration • Chemical resistance	PBT • PA6 • PA66 PET • PA6T • PPE
3  **Connectivity**	Appliance Industrial IT/Communication Automotive New Energy	• Dimensional precision • High flow & low warpage • Heat & chemical resistance • Long-term reliability	PBT • PA66 • PPA/PA6T PA10T • LCP
4  **Switching, Control, & Component Solutions**	Power Signal Automotive Industrial relays Capacitors Structural components	• Flame retardancy (V-0 / 5VA) • Epoxy adhesion • Hydrolysis resistance • High heat resistance • Dimensional stability • High flow & low smoke	PBT • PA66 • PET • PA6T PA10T • PPS • LCP • PC PPE • ABS

1 ELECTRICAL DISTRIBUTION & PROTECTION

Electrical Distribution & Protection

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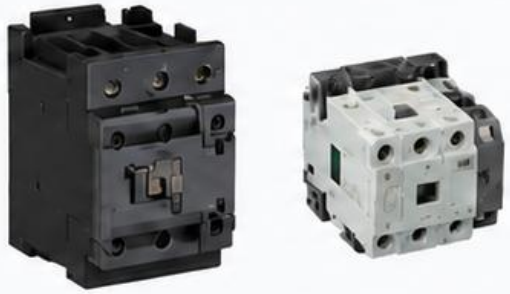
CIRCUIT BREAKERS

MCCB • MCB • bases • housings • handles



CONTACTORS

Switches • sensors • surge/protective devices



PROTECTION

Fuse • arc-extinguishing • support components



SWITCHING

Disconnectors • knife switches • controls



KEY MATERIAL ATTRIBUTES

Flame & Electrical Safety — Flame retardant • Halogen-free • High CTI • High GWFI

Mechanical Performance — High strength • High stiffness • Impact resistance

Processing & Appearance — Fine surface finish • Laser marking • Super flowability

Thermal Performance — Heat resistant • High heat resistance • RTI performance

Dimensional Stability — Low warpage • Low coefficient of expansion

1 ELECTRICAL DISTRIBUTION & PROTECTION

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Electrical Distribution & Protection

CIRCUIT BREAKERS

MCCB • MCB • bases • housings • handles




CONTACTORS

Switches • sensors • surge/protective devices




PROTECTION

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SWITCHING

Disconnectors • knife switches • controls




MCCB | Key Kingfa Material Solutions

	Base	• PBT-RG301 • PA66-RG251 / PA66-R11G25 • PC JH720-R0G10D
	Middle shell and cover	• PA66-RG251 / PA66-R11G25 • PA66-NPG25
	Handle	• PC JH720-R0G10D

MCB | Key Kingfa Material Solutions

	Housing	• PA6-MNR25 • PA6-RNG30 • PA6-RNG20
	Handle	• PBT-GL30 • PA66-G30
	Contact support	• PPS-M65 • PET-G35 • PA6T Vicnyl R445
	Heaver	• PPS-M65 • LCP Vicryst R840
	Bobbin	• PBT-GT30
	Arc-extinguishing	• PA66-C200 • PA66-RNG00

Contactors | Key Kingfa Material Solutions

	Cover	• PA6-RNG25 • PA66-RNG00
	Middle shell	• PA66-R52G25
	Base	• PA66-R52G25
	Bobbin	• PBT-RG301 • PBT-R15G30

Protection & Switching | Key Material Solutions

	Switch	• PBT-R312G15 • PBT-NPG15 / PBT-R35G15
	Surge protective device	• PBT-R312G30 • PBT-R312G20
	Sensor	• PET-RG305
	Protective device	• PBT-NPG20 • PBT-NPG30 • PBT-R35G30
	Protective device	• PET-RG305

Flame & Electrical Safety
Flame retardant • Halogen-free
High CTI • High GWFI

Thermal Performance
Heat resistant • High heat resistance • RTI performance

Mechanical Performance
High strength • High stiffness
Impact resistance

Dimensional Stability
Low warpage • Low coefficient of expansion

Processing & Appearance
Fine surface finish • Laser marking
Super flowability

Additional grades and selection tables are included in the Technical Appendix.

2 MOTORS & ELECTROMECHANICAL SYSTEMS

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Compressors

Air conditioning • refrigeration compressors



- PBT-GT30, PBT-G40 SO, PBT-G30 SO
- PBT-GT20, PA66-G30

Micro Motors

Bobbins • housings • small electrical devices



- PBT-C200, PBT-GL30, PBT-R212G30
- PA66-C200, PA66-G33, PET-RG305

Appliance Motors

Large motors • direct-drive motors



- PBT-RG301 TS, PBT-R312G30 TS, PET-RG305
- PBT-GL30, PBT-G30 TS, PA66-G33 / PA6-G30

Fans

Cooling fans • vehicle motor applications



- PBT-GL30, PBT-GL20, PBT2-G30W2
- PBT-GT30 LT, PBT-GT30 LA, PA66-G33

KEY MATERIAL REQUIREMENTS

FLAME & ELECTRICAL SAFETY - GWFI up to 960°C • V-0 flame retardancy • Low smoke & smoke toxicity

THERMAL PERFORMANCE - RTI ≥120°C • 245°C reflow soldering resistance

MECHANICAL PERFORMANCE - Good toughness • Crack resistance at low temperature

PROCESSING & APPEARANCE - High flow • Thin-wall capability • Color stability at 0.3 mm

STANDARDS & CERTIFICATION - GB/T 14315-2008 • VDE • CQC • UL

3 CONNECTIVITY

Connectivity

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HOME APPLIANCES

Reliable connections for everyday appliances





IT & COMMUNICATION

Precision connectors for high-speed & high-frequency applications





NEW ENERGY / VEHICLE

High reliability for EV power & signal systems



INDUSTRIAL CONNECTORS

Durable solutions for industrial environments





KEY MATERIAL REQUIREMENTS

Flame & Electrical Safety

- V-0 / 5VA flame retardancy
- GWIT ≥750°C
- GWFI up to 960°C
- High CTI ≥250V, up to ≥400V common
- Low smoke & smoke toxicity

Thermal Performance

- HDT ≥240°C, up to ≥280°C
- RTI ≥120°C
- 245°C reflow soldering capability

Mechanical Performance

- High strength & toughness
- Deflection ≥4.0
- Low-temperature crack resistance
- Balanced rigidity & toughness

Processing & Dimensional Stability

- Ultra-high flow (<0.2 mm walls)
- High flow for thin-wall parts
- Good demolding & multi-cavity molding
- Low water absorption
- High dimensional stability

Appearance & Process Stability

- Laser marking
- Color stability at 0.3 mm / V-0
- Easy coloring
- High thermal stability during injection
- Low tendency to carbonize or yellow; reusable nozzle

Standards & Certification

- GB/T 14315-2008
- VDE • CQC • UL

Additional grades and selection tables are included in the Technical Appendix.

3 CONNECTIVITY

Connectivity

HOME APPLIANCES
Reliable connections for everyday appliances



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NEW ENERGY / VEHICLE
High reliability for EV power & signal systems



INDUSTRIAL CONNECTORS
Durable solutions for industrial environments



Representative Connector Examples

Home Appliance Connectors



Consumer Electronics, Computer & Communication



DDR4 Connector



SATA Connector



Socket Connector



SMT Connector



I/O Port Connector

New Energy / Vehicle Connectors



EV Charging Connector



Battery Connector



Inverter Connector



BMS Connector



Wire-to-Board Connector

Industrial Connectors



Terminal Block



PCB Terminal



Control Connector



Barrier Terminal

KEY KINGFA MATERIAL SOLUTIONS
(Recommended Grades)

1 Bromine FR PA66
PA66-RG001 / PA66-RG101 / PA66-RG151 / PA66-RG251 / PA66-R11G25



2 FR PBT / Reinforced PBT
PBT-RG301 / PBT-R15G30 / PBT-GT30 / PBT-R35G30



3 Halogen-free FR PA66
PA66-RNG00 / PA66-ROW / PA66-R30G00



KEY MATERIAL REQUIREMENTS

Flame & Electrical Safety
- V-0 / 5VA flame retardancy
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Appearance & Process Stability
- Laser marking
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Standards & Certification
- GB/T 14315-2008
- VDE • CQC • UL

Additional grades and selection tables are included in the Technical Appendix.

4 SWITCHING, CONTROL, & COMPONENT SOLUTIONS

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KEY APPLICATION AREAS

Switching & Control

Relays and related components for electrical control systems

Passive Components

Capacitors and insulation materials for electrical performance

Structural Components

Battery housings, interior frames, and other functional parts

Future Opportunities

Expanding passive and structural solutions across new applications

KEY FEATURES & REQUIREMENTS

- **Flame retardancy:** UL 94 V-0 down to 0.2 mm; UL 94 HB at 0.75 mm
- **GWIT 775°C at 0.4 mm**
- **High heat resistance,** including **EIS Class F (155°C)** capability
- **Laser-markable**
- **High strength and rigidity**
- **High flowability** for thin-wall and complex parts
- **Low water absorption** for improved dimensional stability
- **Good dimensional stability**
- **Low outgassing**
- **Halogen-free options**

Standards & Certification

- GB/T 14315-2008
- VDE • CQC • UL

4- SWITCHING, CONTROL, & COMPONENT SOLUTIONS

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SWITCHING & CONTROL – RELAY COMPONENTS

Relay Case

General purpose • automotive • HA • industrial



Relay Base

General purpose • automotive • HA • signal



Relay Bobbin

General purpose • HA • automotive • signal



Moving Block

PA6T • PA10T • PPS • LCP high-performance solutions



STRUCTURAL COMPONENTS

Lithium Battery Housing



Material	Grade Name	Key Specs
PPE	PPE-1311 AN118 / PPE-1311 GF10	High temperature resistance, high impact, halogen-free flame retardant V-0 grade

Lithium Battery Interior Frame



Material	Grade Name	Key Specs
PC	JH960-HT08 LT	Low temperature resistance, high flow, high impact resistance, halogen-free FR V0

OTHER STRUCTURAL SOLUTIONS



Connector (LCP)



Relay Housing (ABS)



Interior Frame (PPE)



Functional Parts (PC / PPS)

APPLICATION EXAMPLE: RELAYS





Moving block (Push pin & Armature)



Electromagnet block (Bobbin)



Supporting block (Base)



Contact block (Spring)

KEY BENEFITS

- **Flame retardancy** — UL 94 V-0 down to 0.2 mm; UL 94 HB at 0.75 mm
- **High heat resistance** — EIS Class F (155°C) capable
- **High strength & rigidity**
- **High flow for complex parts**
- **Low water absorption**
- **Halogen-free options**
- **Laser-markable**

KINGFA MATERIAL SOLUTIONS

Material	Grade Name	Key Advantages / Typical Use
PBT	Cost-effective general-purpose relay parts	Reliable, economical
PA66	High strength, heat resistant relay components	Strength & heat resistance
PET	Dimensionally stable, signal relay parts	Dimensional stability
PC	Transparent / visual relay applications	Clarity & impact resistance
PA6T / PA10T	High heat & rigidity, moving block solutions	High temperature performance
PPS	Excellent heat resistance, high-performance parts	Chemical & heat resistance
LCP	Chemical & low warpage, low flow	Low warpage, high flow

Additional grades and selection tables are included in the Technical Appendix.

Technical Appendix



Kingfa E&E Material Portfolio at a Glance

Core engineering plastics provide broad coverage; specialty grades address higher heat, CTI, flow, dimensional stability and flame-retardancy requirements.

Material Family	Distribution & Protection	Motors	Connectivity	Switching & Control	Passive
PBT	●	●	●	●	●
PA66	●	●	●	●	—
PA6	●	●	●	—	—
PET	●	●	●	●	—
PC	●	—	—	●	—
PA6T / PPA	●	●	●	●	—
PA10T	—	—	●	●	—
PPS	●	—	●	●	●
LCP	●	—	●	●	—

● = represented in the current presentation for the market/application family

General Characteristics of Engineering Plastics for E&E

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Material	dimensional stability	Low warpage	Chemical resistance	Heat resistance	Electrical performance	Fire safety	mechanical property	Processability	Price
PBT	++++	++	+++++	+++	+++++	+++++	+++	+++++	+++++
PET	++++	++++	+++++	++++	+++++	+++++	++++	++++	++++
PA6	++	++	++++	+++	+++	+++++	++++	+++	++++
PA66	++	+++	++++	++++	+++	+++++	++++	+++++	+++
PPE	+++++	+++++	++	++++	+++	++++	+++	+++	+++
PPS	++++	+++++	+++++	+++++	+++	+++++	+++++	++	+++
PPA	+++	++++	++++	+++++	++++	+++++	+++++	++++	+++
LCP	+++++	+++++	+++++	+++++	++++	+++++	+++	+++++	++

Material Selection Guidelines – Polyesters

Grade	ISO Identification Mark	Key Specifications		Markets					
		UL94	RTI-Elec	Industrial	Household appliance	IT	Automotive	New energy	Transportation
PBT-C200	>PBT<	HB@0.75mm	75/0.75				●		
PBT-GT30	>PBT-GF30<	HB@0.75mm	130/0.75 (2022)				●		
PBT-R13G00	>PBT-FR(17)<	V-0@0.4mm	130/0.4 (2024)	○	◎			○	
PBT-R312G30	>PBT-GF30 FR(17)<	V-0@0.75mm	130/0.75	○	●	◎	◎	●	◎
PBT-RG301	>PBT-GF30 FR(17)<	V-0@0.3mm	130/0.3	○	●	◎	◎	◎	◎
PBT-R212G30	>PBT-GF30 FR(17)<	V-0@0.3mm	130/0.3	○	●	◎	◎	◎	◎
PBT-R15G30	>PBT-GF30 FR(17)<	V-0@0.32mm	140/0.32 (2022)	○	●	◎	◎	◎	◎
PBT-R13EGG30	>PBT-GF30 FR(17+40)<	V-0@0.4mm	130/0.4 (2024)		●			◎	
PBT-NPG30	>PBT-GF30 FR(30+40)<	V-0@0.7mm	75/0.7		●	◎	◎	●	●
PBT-R35G30	>PBT-GF30 FR(30+40)<	V-0@0.75mm	150/0.75 (2022)		◎		◎	◎	●
PET-R12G30	>PET-GF30 FR(17)<	V-0@0.4mm	155/0.4		◎			○	◎

Note:
1) Other grades with additional functional features are available, such as laser marking, high GWIT, low warpage, higher toughness, hydrolysis resistance.
2) Other grades with different glass fiber contents are available.

● Preferred recommended
◎ Recommend
○ Acceptable

Material Selection Guidelines – Polyamides (PA)

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Grade	ISO Identification Mark	Key Specifications			Markets					
		UL94	RTI-Elec	Flow	Industrial	Household appliance	IT	Automotive	New energy	Transportation
PA6-C100	>PA6<	V-2@1.5mm	65/1.5					◎		
PA6-G30	>PA6-GF30<	HB@0.75mm	130/1.6					◎		
PA66-C200	>PA66<	V-2@0.4mm	130/0.4		◎		○	●	○	○
PA66-G30	>PA66-GF30<	HB@0.8mm	140/0.8				○	●		
PA66-RG251	>PA66-GF25 FR(17)<	V-0@0.36mm	125/0.75		◎	●	◎	○	●	◎
PA66-R11G25	>PA66-GF25 FR(17)<	V-0@0.25mm	130/0.4		◎	●	◎	○	●	◎
PA66-NPG25	>PA66-GF25 FR(40)<	V-0@0.4mm	140/0.4	HF	◎	◎	●		●	●
PA66-RNG00	>PA66-FR(30)<	V-0@0.35mm	130/0.35	HF	●	◎	◎	○	◎	●
PA66-RPG25	>PA66-GF25 FR(52)<	V-0@0.8mm	115/0.8	HF					●	◎
LCPA-R40G2508	>PA-GF25 FR(40)<	V-0@0.38mm	155/0.38	HF				◎	●	
PA66-R30G00	>PA66-FR(30)<	V-0@0.35mm	140/0.35	HF	●	◎	◎	○	◎	●
PA66-RPG25	>PA66-GF25 FR(52)<	V-0@0.75mm	120/0.75	HF					●	◎

Note:
Other functional grades are available, such us laser marking, high GWIT, low warpage, toughness, hydrolysis resistance.
Other grades with different glass fiber contents are available.

● Preferred recommended
◎ Recommend
○ Acceptable

Material Selection Guidelines – Additional Materials

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Grade	ISO Identification Mark	UL94	RTI-Elec	Signal	Power	Industrial	Latching	Automotive	New Energy
PBT-RG301	>PBT-GF30 FR(17)<	V-0@0.3mm	130/0.3	●	●	●	◎	○	◎
PBT-R12G30	>PBT-GF30 FR(17)<	V-0@0.3mm	130/0.3	●	●	●	◎	○	◎
PBT-R13EG30	>PBT-GF30 FR(17)<	V-0@0.3mm	130/0.3	◎	◎	○			
PBT-R13G30W2	>PBT-GF30 FR(17)<	V-0@0.75mm	130/0.75				●		●
PBT-R312G30	>PBT-GF30 FR(17)<	V-0@0.75mm	130/0.75			○	●	◎	●
PBT-GT30	>PBT-GF30<	HB@0.38mm	130/0.38					●	
PET-R12G30	>PET-GF30 FR(17)<	V-0@0.4mm	160/0.4	○	◎	◎	○	○	○
PA66-RG252	>PA66-GF30 FR(17)<	V-0@0.36mm	125/0.75		◎	◎	◎	○	◎
PA66-G33	>PA66-GF33<	HB@0.75mm	140/0.75					●	
Vicnyl R430NH	>PA6T-GF30 FR(40)<	V-0@0.4mm	65/0.25	○	○	○	○		◎
Vicnyl R6130NH	>PA10T-GF30 FR(40)<	V-0@0.4mm	50/0.2	○	○	○	○		◎
Vicryst R840	>LCP-(GF+MD)40<	V-0@0.2mm	130/0.2	●	◎	◎	○		
PPS-G40	>PPS-GF40<	V-0@0.25mm	130/0,25	○	○	○			
JH820-M20	>PC<	V-2@0.4mm	80/0.4			●			

● Preferred recommended ◎ Recommended ○ Acceptable

Material Properties

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Grade	ISO Identification Mark	UL 94	Solvent resistance	GWIT 775℃	Low warpage	Tough ness	Thermal shock	Hydrolysis resistance	Heat-resistant	Cold-resistant	Proof voltage
PBT-R13G00	>PBT FR(17)<	V-0@0.4mm	++			+			+	++	++
PBT-R212G15 PBT-RG151	>PBT-GF15 FR(17)<	V-0@0.3mm	++				+		+	+	++
PBT-R212G30 PBT-RG301	>PBT-GF30 FR(17)<	V-0@0.3mm	++				+		+	+	++
PBT-R312G30	>PBT-GF30 FR(17)<	V-0@0.75mm	++				+		+	+	++
PBT-R312G30LW	>PBT-GF30 FR(17)<	V-0@0.75mm	++		++				+	+	++
PBT-R312G30 TS	>PBT-GF30 FR(17)<	V-0@0.75mm	++			++	++	++	+	++	++
PET-RG305	>PET-GF30 FR(17)<	V-0@0.35mm	++	++	+				+	+	++
PA66-RG252	>PA66-GF25 FR(17)<	V-0@0.36mm	++	++		++	+	++	++	+	++
PA6-RG251	>PA6-GF25 FR(17)<	V-0@0.8mm	++	++		++	+	++	++	+	++

+++ Excellent ++ Great + Good

Material Properties

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Materials	ISO Identification Mark	UL 94	RTI-Elec	GWIT 775	Low warpage	Tough-ness	Laser marking	Low outgas	Flow-ability	Easy Molding	Heat resistant
PBT-RG002	>PBT FR(17)<	V-0@0.7mm	75/0.7		++		+	++	++	++	+
PBT-RG301 PBT-RG151	>PBT-GF30/15 FR(17)<	V-0@0.3mm	130/0.3				+	++	++	++	++
PBT-R212G30 PBT-R212G15	>PBT-GF30/15 FR(17)<	V-0@0.3mm	130/0.3			+	+	++	++	++	++
PBT-R13FG30 PBT-R13FG15	>PBT-GF30/15 FR(17)<	V-0@0.75mm	130/0.75	++	+		+	+	++	+	+
PBT2-R13G30W2 PBT2-R13G15W2	>PBT-GF30/15 FR(17)<	V-0@0.75mm	130/0.75		++	+	+	+			+
PBT-R312G30 LM PBT-R312G15 LM	>PBT-GF30/15 FR(17)<	V-0@0.75mm	130/0.75			+	++	++	+	+	++
PBT-NPG30 PBT-NPG15	>PBT-GF30/15 FR(17)<	V-0@0.7mm	75/0.70				+	++	++	++	++
PPS-T40 PPS-GF40	>PPS-GF40<	V-0@0.3mm	130/0.3	++	++			+			++

+++ Excellent ++ Great + Good

Kingfa Sci. & Tech. Co., Ltd.

Founded in 1993, Kingfa Sci. & Tech. Co., Ltd. is an advanced material enterprise focusing on the R&D, production, sales and service of advanced high-performance chemical materials, and providing advanced material solutions for creating a safer, more comfortable and more convenient life. Kingfa is committed to solving the increasingly severe environmental problems, actively responding to the challenges brought about by the changes in the global environment, and promoting the continuous improvement of living environment by balancing economic, environmental and social relations to achieve sustainable development and create a better life.

Based in Guangzhou Science City, Kingfa has established 60 subsidiaries across the world, and founded R&D and production bases in overseas regions including South Asia, North America, and Europe. The products of Kingfa mainly rely on independent innovation and development, covering eight categories with independent intellectual property rights including modified plastics, eco-friendly high-performance recycled plastics, fully biodegradable plastics, specialty engineering plastics, carbon fiber and composite materials, light hydrocarbon and hydrogen energy, polypropylene resin, styrene resins, medical and healthcare polymer materials, which are widely used in various industries including automobiles, household appliances, electrical and electronic components, communications, new infrastructure, new energy, modern agriculture, modern logistics, rail transit, aerospace, high-end equipment, medical and healthcare industries, establishing strategic partnership with numerous well-known enterprises around the world.

At present, Kingfa is one of the companies with the most complete product categories in global advanced chemical material industry. Kingfa is the largest modified plastics production company in the Asia-Pacific region with the most complete product range. For complete biodegradable plastics, specialty engineering plastics, carbon fiber and composite materials, Kingfa's technology and product quality has reached the international advanced level. Currently, the company has developed advanced polymer materials as its core business. It has also established collaborative innovation, production, service, and application processes with upstream and downstream industrial chain to formed four major business segments of modified plastics, advanced materials, green petrochemicals, and medical and health polymer materials. Relying on the international marketing service network, excellent operation system and collaborative innovation across the industrial chain, Kingfa will continue to invest in technological innovation to ensure the high-quality development.

Products are the foundation of market competition. In order to ensure the continuous innovation of products, with the R&D concept of "independent innovation, leading technology, and product superiority", relying on the support of National Recognized Enterprise Technology Center, National Engineering Laboratory, State Key Laboratory, and National Industrial Innovation Center, Kingfa has established the strategic "13551" R&D system, gradually forming a R&D platform driven by technology research, industry research, and product research.

Kingfa continued to invest about 4.0% of its revenue in research and development. In 2023, Kingfa R&D expenses reached 1.973 billion yuan. The company adheres to the concept of "common endeavor, common growth, and common prosperity", and continues to innovate and improve the talent incentive mechanism to adapt to different stages of enterprise development. The value sharing concept has attracted a large number of outstanding talents. At present, the R&D team consists of 167 engineers with Ph.D. degree and 1130 engineers with master degree, and has independently trained 2 key candidates for academicians of the Chinese Academy of Engineering and Chinese Academy of Engineering in Guangdong Province and 6 experts with special allowance from the State Council.

Kingfa has accumulatively applied for 6036 domestic and foreign patents in total, including 4394 invention patents, 761 utility models, 35 appearance designs, 552 PCT patents and 294 foreign patents. The company has won 4 national scientific and technological progress second prizes, 15 scientific and technological progress awards at provincial and ministerial level, and 19 China Patent Awards (Excellent Award).

Kingfa adheres to the strategic thinking of " Strengthen the middle, Consolidate both ends, Innovation-oriented, Leap-forward development", and strives to build a world-class R&D, marketing, manufacturing, and information platform to become a global leader in advanced materials, providing support for national strategic materials.

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