

BGFecomaterials

2024 Company Profile

BGF Group Introduction

Life Network Company **BGF**

BGF Group with the motto, "Life Network Company", which provides the best products and services anytime, everywhere, successfully grew CU convenience business to the nation's largest Korean convenience brand.

BGF is now expanding our business coverage from retail distribution to food manufacturing, logistics, financial services and eco-friendly materials. Also, we are starting new material business under BGF ecomaterials .

We will achieve the true "Life Network Company" by connecting our values and exerting synergy.

BGF Group Overview

Founded



1994. 12. 01

Headquarter



405, Teheran-ro, Gangnam-gu,
Seoul, Republic of Korea

Total Assets



1.6 Billion USD

Number of employees



About 3,500

* Based on the end of 2023 financial statements

The BGF Companies

BGF

Business in Retail

BGFretail

BGFnetworks

BGFlogis

BGFfoods

BGFhumannet

Business in Materials

BGFecomaterials

BGFecosolution

BGFecocycle



KNW

**Beyond the history of Korea CVS,
we aim for the sustainable future!**



2017 - Present

Diversification of Our Business

- 2023. 01 Changed the name of KOPLA to BGFecomaterials
- 2021. 12 BGFretail received Presidential Award for Enterprise Innovation
- 2021. 11 KOPLA was acquired by BGF
- 2021. 04 Opened the first CU convenience store in Malaysia
- 2020. 11 Opened 15,000 CU convenience stores
- 2019. 07 Established BGFecobio
- 2018. 08 Opened the first CU convenience store in Mongolia
- 2017. 12 Changed CU BI
- 2017. 11 BGF Holdings launched

2012 - 2016

BGF stands for "Be Good Friends"

- 2016. 11 Won the industry's first Award for Design in Korea
- 2016. 06 Proclaimed the company's identity "Be Good Friends"
- 2016. 06 Opened the 10,000th store, the first in the field
- 2016. 01 Launched integrated PB brand HEYROO
- 2015. 11 Established BGFretail Product Research
- 2015. 01 The proclamation ceremony of the brand vision
- 2014. 05 BGFreal listed in the stock market
- 2012. 08 Opened the CU convenience store at Olympic Square
- 2012. 06 Changed the name to BGFretail created brand "CU"

2005 - 2011

Successful growth of the domestic convenience store business

- 2011. 10 The introduction of CCM, consumer-centered management
- 2011. 05 The introduction of Home Store Management System
- 2010. 08 Opened the 5,000th store, the first in the field
- 2009. 12 Established BGFnetworks
- 2009. 08 Opened 'mobile convenience store' the first in the field
- 2009. 03 Established BGFhumannet
- 2008. 01 Established BGFfood
- 2007. 08 Opened 24 hours call center, the first in the field
- 2005. 08 Opened the 3,000th store, the first in the field

1990 - 2004

Revolution of Distribution business, The Convenience Store Business

- 2004. 12 Opened the CU convenience store in the Gaeseong Industrial Park(North Korea)
- 2002. 12 Operated designated lunchbox factory
- 2002. 11 Opened the first CU convenience store in the Geumgangsan Park(North Korea)
- 2001. 10 Operated BGFlogis center
Established Family Food, F/F factory
- 2001. 03 Established BGFpost
- 1999. 11 Established BGFlogis
- 1994. 12 Incorporation
- 1990. 10 Opened the first CU in Songpa, Korea

BGFecomaterials At a glance

2024 BGFecomaterials Company Profile



BGFecomaterials

Company



Jung-hyuk Hong

CEO



213 million USD

Sales(2023)



13 million USD

Operating Profit(2023)



About 540

No. of Employees(2023)



1997. 10

Foundation Date of BGFecomaterials



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Overseas Subsidiaries

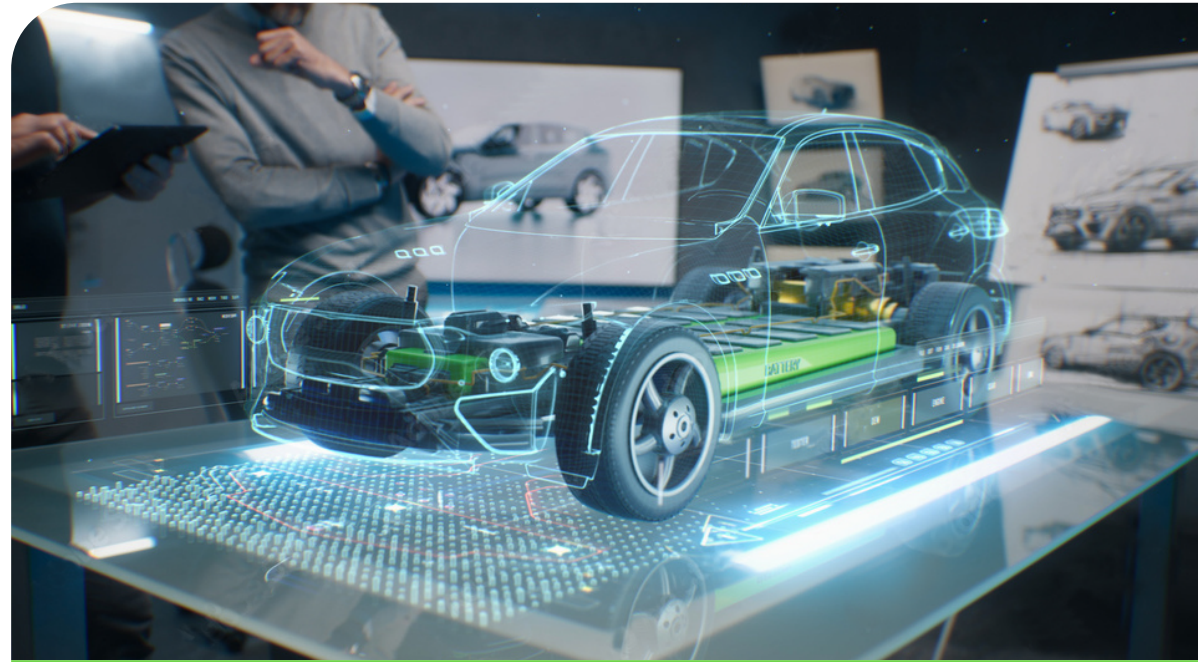


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Subsidiaries in Korea

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Through developing new material solution that make more convenient and enhance the quality of life, BGF ecomaterials creates new materials for sustainable future.



Since its establishment in 1997, BGFecomaterials has provided various products of ENPLA such as general purpose PP, PA6/PA66, PBT and mPPO.

BGFecomaterials is becoming a specialized material company with a wide range of research areas such as automobiles, electric/electronics, home appliances, furniture, industrial and new high functional materials, and continues R&D of eco-friendly materials such as bio-materials and recycled materials as well.



Since its establishment in 1997, BGFecomaterials has grown into a manufacturer of Engineering Plastics Compounds through R&D and now is a specialized material company with coverage from ENPLA to sustainable eco-friendly materials such as bio and recycled.

2021-2023

Expanding business for further development

2023 Completion of BGFecocycle's recycling sorting plant



Acquired KNW, Fluorine Korea

Company name change to BGFecomaterials

Won the Ministerial commendation at the Korea Design Awards



2022 Merger and acquisition of BGFecobio

Obtained GRS recycled material certification.

2021 Incorporation into the BGF Group

2014-2020

Step forward as a global company

2020 Expansion of the factory line in Changshu, China



2018 Completion of the China Changshu Factory

2017 Started the construction of China plant in March

KOSDAQ Grand Prize for Best Management Award

2014 Surpassing 100 billion Korean won (approx.95 million US dollar) in revenue

USA Plant completed in Georgia

2008-2013

Investment in R&D

2012 Established a branch office (India)
Started LFT production

2011 Moved to a larger facility (Hwaseong)

2010 Registered the GMW global certification
Listed on the KOSDAQ in Nov.

2008 Received IR52 Jang Yeong-sil Award



2002-2008

The Fast Growth

2008 Registered 4 types of patent including calcium chloride



2006 Acquired ISO/TS16949, ISO14001 certification

2005 Established a branch office(China)

2003 Registered HMC/KMC MS-Spec

1997-2001

The Beginning of Material Business

2001 Introduction of PILOT experimental equipment

2000 Completed the 2nd plant in Hwaseong

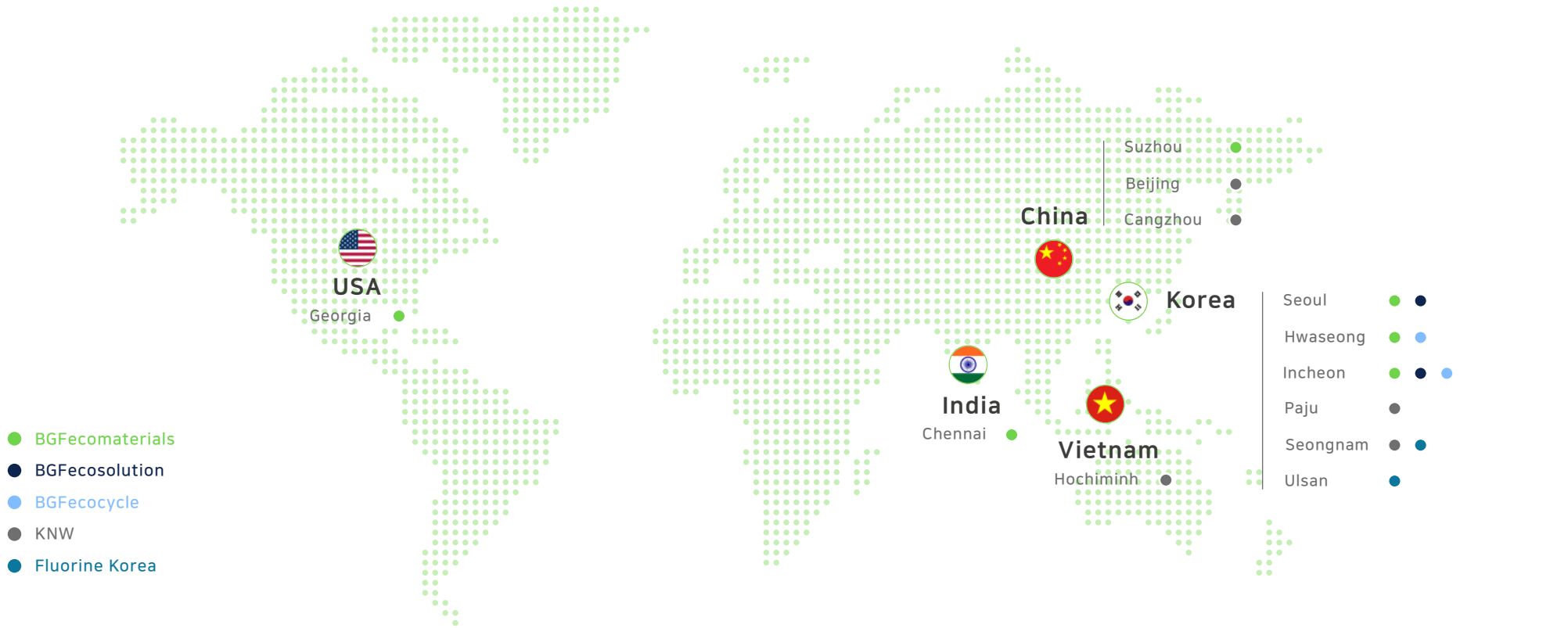
1999 ISO9002 certification

Sales surpassed 10 billion won

1997 Company establishment (in Sihwa Industrial Complex)

Global Networks

BGFecomaterials and our subsidiaries located worldwide to meet global demand. We currently have 9 production facilities and 5 offices in 12 locations within 5 countries to create new values by developing materials for a better future everyday.



Korea

- Seoul: Office, Office
- Hwaseong: HQ/Plant/R&D, Plant
- Incheon: R&D, HQ/Plant/R&D, HQ/Plant

Asia

- Paju: HQ/Plant/R&D
- Seongnam: Office, Office
- Ulsan: HQ/Plant/R&D
- China Suzhou: Manufacturing
- China Beijing: Office
- China Cangzhou: Manufacturing
- Vietnam Hochiminh: Manufacturing
- India Chennai: Sales

America

- USA Georgia: Manufacturing

From advanced technology specialty materials to eco-friendly materials for a sustainable future.



Engineering Materials

An engineering material business focused on high-performance



Bioplastics

Bioplastics business pursuing quality of life



Plastic Recycling

The fastest resource circular recycling material business



Specialty Chemicals

Stepping stones bridging to advanced technology, specialty chemicals business



Automotive & Electronic Materials

Automotive and electrical & electronic materials business based on verified expertise

Business Area

New Materials Business based on Engineering Plastics

- ENPLA
- New materials
- Special plastics



BGF Ecomaterials' EP materials and new materials are applicable in a variety of ways, from raw materials for automobiles, electrical and electronic products, furniture, and industrial products, to household goods that can be easily accessed in daily life to enhance the value of life.

Key Product

Engineering plastic are stronger than metals and also represent special plastics with excellent dimensional stability, heat resistance, and mechanical properties.

- PA6
- PA66
- PP
- PBT
- mPPO
- LFT
- PC/ABS
- UD-Tape

Application



Automobile Interior and Exterior Materials



Furniture



Home Appliances



Electrical and electronic materials

Major Customer



Business Area

Bio-material Business for a Sustainable Future

Plant-based Material

Functional Compound

Biodegradable Material

Key Product

PLA

PLA is a bioplastic produced from plant-derived raw materials such as corn. It is a biodegradable material that is decomposed into water and carbon dioxide within months by microorganisms under certain conditions, and is used as a base material for compounding because it is highly rigid and easy to apply to other materials.

PBAT

PBAT is an petroleum-based biodegradable plastic. Unlike ordinary plastic, it is naturally decomposed at a rapid rate within six months by oxygen, light, enzymes, and microorganisms in nature. It is flexible enough to have an elongation of 600-800% and can be applied to a variety of products for a variety of purposes through compounding with other biodegradable materials.

BIO Compound

According to the customer's needs and B2B customized materials, we meet a variety of application with specific performance requirements, including better biodegradability, durability and flexibility.

Application



PLA is a bioplastic produced from plant-derived raw materials such as corn. It is a biodegradable material that is decomposed into water and carbon dioxide within months by microorganisms under certain conditions, and is used as a base material for compounding because it is highly rigid and easy to apply to other materials.



PLA Foam



Food Package



Consumer Goods



Textile and Non-woven Fabrics

Major Customer



Business Area

The fastest virtuous cycle of resources Recycled Materials Business

Recycle Eco-friendly R-Compound

Key Product



It is an eco-friendly material that reduces the plastic waste by using discarded plastic materials.



It is an eco-friendly material that recycles plastic materials discarded during the production process in the factory.



It is an eco-friendly material that reduces the plastic waste by using discarded plastic materials.

Application



Carbon-reducing Effect



Eco-friendly



Waste Reduction Effect



We are producing recycled materials by collecting discarded plastic after use. By recycling discarded plastic, we can produce products with relatively low energy and reduce carbon generation.

Major Customer



Automobile Interior and Exterior Materials



Furniture



Home Appliances



Consumer Goods



Textile and Non-woven Fabrics

Business

Business Area

Stepping stones bridging to advanced technology, specialty chemicals business

- Semiconductors
- Secondary Battery
- Eco-friendly

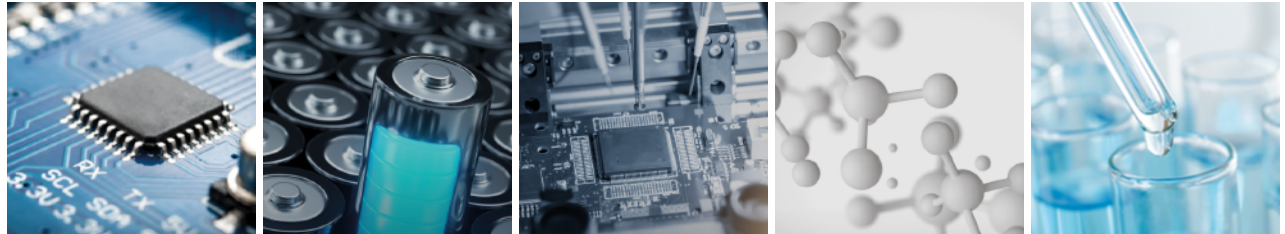


Producing fluorine materials, a key material in high-tech such as semiconductors, energy, secondary batteries, etc. industry, contributes to Industrial Growth. We are expanding the scope of development of various fluorine chemical products, securing domestic supply chain safety through the independence of the material industry, and minimizing environmental problems to provide sustainable solutions.

Key Product

<p>F2 Ultrahigh Purity Fluorine</p> <p>Being used for cleaning/etching and other processes in semiconductors, displays, solar cell industries, eco-friendly materials compared to other fluoride products</p>	<p>SF6 Sulfur hexafluoride</p> <p>An insulation gas in various industries has the characteristics of non-toxic, inert, highly lethal, and thermal stability.</p>	<p>F1EC mono-Fluoro ethylene carbonate</p> <p>One of the four key raw materials for secondary batteries, used as solvent and additive in electrolytes, improves battery safety and minimizes performance degradation.</p>
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Application



Semiconductors

Batteries

Specialty Industries

Fluoride Compounds

Organic&Inorganic Matters

Major Customer



Business Area

Adhesive for automotive, electrical/electronic materials, and material business for seats

- Specialty Fiber Manufacture Technology
- Adhesive technology



Through adhesive technology and specialty fiber manufacturing technology needed in various industries, we continue to research&develop and produce process materials used in electronics and interior materials in automobiles.

Key Product

Display

High-value/adhesive film materials applied to electrical/electronic, automotive, and display

- Protective Film
- Pinting Blanket
- Silicone Molding Resin
- Silicon OCA
- Hook&Loop
- Ramie Sponge
- Adhesive Transfer Tape
- Nonwoven Fabric

Automotive

Special fiber materials used in automotive seats

Application



Automotive Seats



Automobile Interior Materials



Display

Major Customer



R&D Mission



Prepare the present and the future of BGFecomaterials through R&D

The BGF Ecomaterials R&D Center is conducting research and development on lightweight, metal replacement, and eco-friendly materials for a richer, safer, more sustainable future, and focuses on improving quality to maximize the value of customer and develop high value-added technology.

The Field of R&D

Development of New EP Materials

- Development of Lightweight Materials
- Alternative Material Development
- LFRT Development
- Development of Super EP such as PPS/PCT

Eco-Friendly Materials Research

- PLA, PBAT, and BIO-Comp'd Development
- PCR, PIR Research
- R-Comp'd Development

Customized Material Development

- Development of customized materials for customers until the mass production
- Identification of technology trends and exploring future markets

CAE Design/Manufacturing Support

- Potential Product Design/Manufacturing Optimization Analysis
- Support R&D to optimize design/manufacturing processes

Award Status

Certification

High Functional Materials Certification



ISO/TS 1694
Quality Certification



ISO 14001
Environmental Certification



UL Flame
Retardant Certification

Recycled Materials Certification



GRS Recycling Certification

Awards

IR52 Jang Young-sil Award

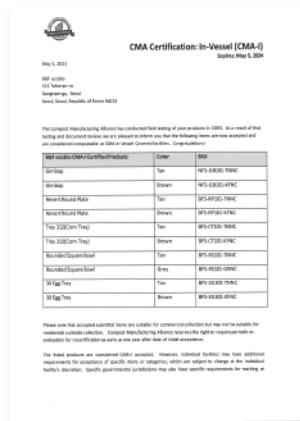


High functional Polyamide
Manufacturing Technology
for Automotive Parts

Bio-materials Certification



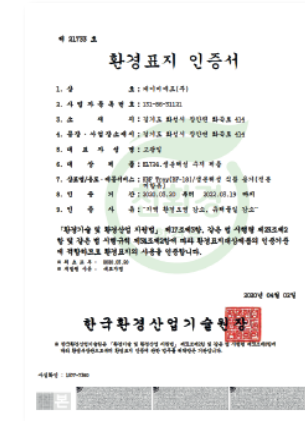
BPI Biodegradability/
Composting Certification



CMA Industrial Composting
Certification

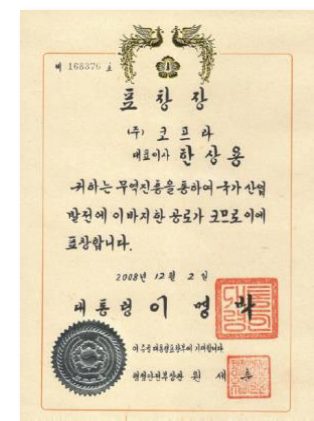


OK Compost Biodegradation
Certification



EL724 Certification of
Biodegradation in Korea

The Presidential Award



The Presidential Award

Patent Status

Patents



Polyamide Resin Composition for Automobile Radiators



Polyamide Resin Composition with Higher Impact Resistance and Alcohol Resistance



Polyamide Resin Composition



Polyamide Resin Composition



Polyamide/Polyethylene Terephthalate Alloy Resin Composition



Polyamide Resin Composition for Automobile Radiators



Polyphenylene Sulfide Resin Composition for Vehicle Headlamps



Polyphenylene Sulfide for Thermostat House



Automotive Suspension with Reinforced Fiber Composition Molding

EP Customer Specification

BGFecomaterials holds about 150 global customer specification which proves company's engineering plastic technology.

68 types Certified in Korea by Hyundai/KIA (HQ, Korea)

NO.	Spec	Material	Grade	Application	Approved date
1	MS211-14 E-2	PA66-GF20+CF10	KDGK1021	FUEL FILLER HOUSING	2018. 03
2	MS211-36 C-1	PA66-GF35	KDG1035	Cylinder Head Cover(CHC)	2014. 06
3	MS211-36 B-3-1	PA66-GF10+MD28	KDX1013BK900NK	Engine Cover	2020. 05
4	MS211-38 B	PA66-GF40	KDG1040	Accel Pedal	2015. 08
5	MS211-46 A	PA66	KDP1000	Fastner, Strap Clip, Cable Tie etc.	2016. 05
6	MS211-46 B	PA66(Heat Stabilized)	KDP1000R	Canister, Connector etc.	2016. 05
7	MS211-46 C-2	PA66 (High impact)	USN16660	Roof Rack cover etc.	2003. 10
8	MS211-47 A-2-1, MS211-67 B-1 MS211-48 C-2	PA66-GF30	KDG1030BK	Rad Tank, Gear shift lever, Inner Lamp back cover etc.	2008. 03
9	MS211-48 C-1	PA66-(GF20+MB5)	KDX1021	Air Cleaner	2015. 07
10	MS211-47 A-4	PA66-GF20(High Impact)	KDR1020	FUEL FILLER DOOR BRACKET	2013. 04
11	MS211-54 A	PA66 (High impact)	KRE1121C	Wheel Cover	2012. 02
12	MS211-54 D-1	PA66+MD15	KDU1015	Wheel Cover	2018. 04
13	MS211-54 D-2	PA66+PA6-MD15	KDU1115	Wheel Cover	2019. 05
14	MS211-61 E-1	PA66-(GF7+MD)40	KDX1083	Fan/Shroud	2022. 01
15	MS211-64 B	PA66-GF63	KDG1063	Mirror Base Plate & Frame	2017. 03
16	MS211-67 A-1	PA66+612-GF33	KDG1133CR BK	CaCl2 resistance Radiator Tank	2006. 03
17	MS211-70 A	PA66-LGF 15+BaSO4 50	KDX1065	Engine Room Partition wall	2013. 02
18	MS211-70 B	PA66-LGF 15+BaSO4 40	KDX1064	Engine Room Partition wall	2017. 02
19	MS211-70 C	PP-GF15+BaSO4 30	KPX1063	Engine Room Partition wall	2017. 02
20	MS211-71 B	PA66-CF40	KDK1040	Sunroof Mechanism Part	2017. 09
21	MS211-36 C-6	PA6-GF35	KNG1035R	Valve body cover	2021.05
22	MS211-38 C	PA6-GF40	KNG1040	Accel pedal	2020. 10
23	MS211-44 A	PA6	KNP1000	Package Tray, Clip & Holder	2019. 02
24	MS211-45 A-1, MS211-48 B-1	PA6-GF20	KNG1020	Rain Sensor Cover	2013. 01
25	MS211-45 A-2, MS211-48 B-2	PA6-GF30	KNG1030	Bracket, Hanger, Engine cover etc.	2009. 02
26	MS211-45 D-1	PA6-GF15 (UV&Scratch resistance)	KNG1020S	Door I/S Handle, Housing etc.	2019. 03
27	MS211-45 D-3	PA6-GF50	KNG1050BK	Air vent wing	2017. 06

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NO.	Spec	Material	Grade	Application	Approved date
28	MS211-45 F	PA6+MXD6-GF60	KNG1160BK	Slim air vent wing	2021.06
29	MS211-52 B	PA6-(GF15+MD25)	KNG1040CW	Outside Door Handle, Roof Rack etc.	2016. 05
30	MS211-52 C	PA6+ASA+GF25-MD15	KNX1176W	Roof Rack etc.	2020.08
31	MS211-52 D-2	PA6-GF15+GB25	KNH1067W	Roof Rack etc.	2020.08
32	MS211-36 B-1	PA6-(GF7+MF13)	KNX1014	Engine Beauty cover	2012. 10
33	MS211-64 A	PA6-GF50	KNG1150	Mirror Base Plate & Frame	2017. 03
34	MS211-65	PA6-GF30	KNG1030FM	FEM Carrier etc.	2010. 04
35	MS211-96 A-2	PA6+PCR PA6-GF15	KNG1015U	Window inner frame	2023.09
36	MS213-22 B	PP	KPP1000ST	Reservoir tank (transparency)	2014. 06
37	MS213-22 D	PP-GF40	KPG1040BK	Radiator tank(EV)	2022. 03
38	MS213-28 A, MS213-29 C-1	PP-TD20	KPT1020	Heater blower case etc.	2008. 03
39	MS213-29 C-4	PP-PD20	KPM1020 BK	Air Cleaner	2021.07
40	MS213-29 C-5	PP-(MD5+MB5)	KPX1011	Air Cleaner	2015. 07
41	MS213-29 C-6	PP-(MD25+MB5)	KPX1013	Air Cleaner	2015. 07
42	MS213-61 D-1, MS213-29 D	PP-LGF20	KPL1020	Shroud etc.	2013. 02
43	MS213-56 C-1	PP-LGF40	KPL1040	TGS BRACKET	2020. 02
44	MS213-56 C-2	PP-LGF40	KPL1040	FEM Carrier etc.	2012. 07
45	MS213-56 D-2	PP-LGF50	KPL1050	Mirror Base Plate & Frame	2016. 12
46	MS213-60 D-1	PP-GF30	KPG1030M	Pedal	2022.05
47	MS213-60 F	PP-GF50	KPG1050M	Pedal	2022.05
48	MS213-61 B, MS213-29 B-3	PP-GF30	KPG1030	Shroud	2017. 03
49	MS213-29 B-2	PP-(GF15+MB5)	KPX1061	Air Cleaner	2015. 07
50	MS213-67 B-1, MS213-29 B-1	PP-GF20	KPG1020	Air Cleaner	2016. 11
51	MS213-69 A	PP-(GF25+MF15)	KPX1076	Engine Beauty cover	2012. 10
52	MS213-69 B	PP-(LGF20+BG10)	KPL1021	Engine Beauty cover	2013. 05
53	MS213-71 A	PP-LGF30	KPL1030	Door Module	2017. 05
54	MS213-71 B	PP-LGF20	KPL1020	Door Module Panel	2017. 05
55	MS213-80 B-2	PP-GF30, FR V0	KPG1030F2	Battery Module Assembly (Electrical SPEC.)	2023.10

EP Customer Specification

BGFecomaterials holds about 150 global customer specification which proves company's engineering plastic technology.

68 types Certified in Korea by Hyundai/KIA (HQ, Korea)

NO.	Spec	Material	Grade	Application	Approved date
56	MS213-90 A	PP-GF30(Recycled PP)	KPG1030AU	Under Cover	2017. 04
57	MS213-92 F	PP-TD30(Recycled PP)	KPT1030U	Head Lamp Housing	2023.05
58	MS213-92 H	PP-GF30(Recycled PP)	KPG1030U2	Head Lamp Housing	2023.05
59	MS213-93 B-1	PP-GF30(Recycled PP)	KPG1030U	Radiator Shroud	2017. 05
60	MS212-01 E	PA+ABS-GF15	KRG1115C	Gear Shift Knob etc.	2008. 06
61	MS241-05 B-3	mPPO-GF10,FR V0	KQG1010F2	Battery Module Assembly(Electrical SPEC.)	2023.10
62	MS941-03 A-11	PA66-(GF17+MD21)	KDX1083	Electrical Connector(Electrical SPEC.)	2017. 09
63	MS941-03 D-3 FRV0	PA6-GF30 FR	KNG1030F2	Electrical Connector(Electrical SPEC.)	2021. 01
64	MS941-07 A	PA66+PPE	KZP1000	Juction Box PCB block(Electrical SPEC.)	2023.05
65	MS941-07 C-2	PP-TD20	KPT1020	Fuse Box Cover(Electrical SPEC.)	2023.07
66	MS941-07 D	PP-GF20	KPG1020	Protector & cover(Electrical SPEC.)	2023.07
67	MS941-91 B-1	PA6+PCR PA6-GF30, FR V0	KNG1030UF2	Charger Inlet Connector(Electrical SPEC.)	2023.11
68	MS941-91 D-1	PP+PCR PP	KPP1000U2	Protector & cover(Electrical SPEC.)	2023.11

EP Customer Specification

BGFecomaterials holds about 150 global customer specification which proves company's engineering plastic technology.

16 types Certified for Localization in North America (Georgia, USA)

NO.	Spec	Material	Grade	Application	Approved date
1	MS211-36 B-1-2	PA6-GF7+MD13	KNX1014	Engine cover	2020.11
2	MS211-36 C-3	PA66-(GF25+MD15)	KDX1076	Cowl top Cover	2018. 08
3	MS211-36 B-3-1	PA66-GF10+MD28	KDX1013A	-	2020.12
4	MS211-46 B	PA66(Heat Stabilized)	KDP1000R	Canister etc.	2015. 10
5	MS211-47 A-2-1	PA66-GF30	KDG1030	Rad Tank, Gear shift lever, Inner Lamp back cover etc.	2015. 06
6	MS211-61 E-1	PA66-(GF17+MF21)	KDX1083	Fan/Shroud	2015. 07
7	MS211-64 A	PA6-GF50	KNG1150A	Side mirror base plate	2018. 01
8	MS211-64 B	PA66-GF63	KDG1063A	Side mirror base plate	2018. 01
9	MS211-65	PA6-GF30	KNG1030FM	FEM Carrier etc.	2015. 04
10	MS211-95	PA6-(GF+MD)20	KNX1014U	Engine beauty cover	2015. 09
11	MS213-56 C-1	PP-LGF40	KPL1040R	Pedal etc.	2018. 05
12	MS213-56 C-2	PP-LGF40	KPL1040	FEM Carrier etc.	2015. 04
13	MS213-61 B	PP-GF30	KPG1030	Shroud	2016. 05
14	MS213-67 B-1	PP-GF20	KPG1020	Braket	2015. 10
15	MS213-90 C	PP	KPP1000U	Under Cover, Air Guard	2016. 01
16	MS213-93 A	PP-GF30	KPG1030U	Shroud etc.	2015. 07

EP Customer Specification

BGFecomaterials holds about 150 global customer specification which proves company's engineering plastic technology.

16 types Certified for Localization in China (Changshu, China)

NO.	Spec	Material	Grade	Application	Approved date
1	MS211-36 B-3-1	PA66-GF10+MD28	KDX1013C	Engine Cover	2020.05
2	MS211-44 E	PA6	KNE1010LW	Head Rest Guide	2017. 04
3	MS211-64 A	PA6-GF50	KNG1150BK900SO	Mirror Base Plate & Frame	2016. 12
4	MS213-24 C	PP	KPP1000C	TRIM-RR TRANSVERSE	2021. 01
5	MS213-40 C-3	PP+E/P-TD20	KPU1037SRC	TRIM-FR DR SCUFF,LH	2021. 01
6	MS213-40 G-2	PP+E/P-TD20	KPU1032SRC	PNL-CRASH PAD LWR.LH	2021. 01
7	MS213-56 B-1	PP-LGF30	KPL1030IC	U/COVER ASSY-CTR FLR OTR,LH	2021. 01
8	MS213-56 C-1	PP-LGF40	KPL1040T	Gear Bracket etc.	2017. 12
9	MS213-57 B	PP-TD20	KPT1020SRC	SHROUD -STEERING COL LWR	2021. 01
10	MS213-57 D	PP-TD20	KPU1021SRC	SHIELD-COVER ,FRT INNER,LH	2021. 01
11	MS213-90 A	PP-GF30(Recycled PP)	KPG1030AU	Protector, Bracket	2017. 04
12	MS213-90 B	PP-GF30(Recycled PP)	KPG1030BU	Under Cover	2017. 04
13	MS213-91	PP-GF30(Recycled PP)	KPG1030BU	Battery Tray	2017. 04
14	MS213-52 B	PP-(TD20+ST)	KPU1026SRC	Sunvisor Pad	2020. 05
15	MS220-90 B	PP(Recycled PP)	KPP1000BU	Wheel Guard	2017. 04
16	MS220-90 F	PP(Recycled PP)	KPU1015U	Wheel Guard	2017. 04

EP Customer Specification

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30 types Certified in Korea by General Motors (HQ, Korea)

NO.	Spec	Material	Grade	Application	Approved date
1	GMW3038P-PA66-GF15H	PA66-GF15	KDG1015	AUX BOX(Main body)	2014. 02
2	GMW3038P-PA66-GF30H	PA66-GF30	KDG1030	Connector, Gear box, Cam cover etc	2010. 04
3	GMW3038P-PA66 GF35H	PA66-GF35	KDG1035	Pedal, fan, Fan Shroud etc.	2010. 11
4	GMW3038P-PA66-GF50H	PA66-GF50	KDG1050	Mirror Frame etc.	2011. 08
5	GMW3038P-PA66 GF60H	PA66-GF60	KDG1060	Mirror Frame etc.	2010. 08
6	GMW16262P-PA66-GF25	PA66-GF25,FR	KDG1025FR	Ashtrays	2013. 02
7	GMW16447P-PA66-T1	PA66 Impact Modified	KDE1010	Hood PRIM LAT REL CBL	2013. 01
8	GMW16447P-PA66-T3	PA66 Very high Impact	KDE1020R	Hood Cable Lever Ass'y	2013. 07
9	GMW3029P-PA6-GF15H	PA6-GF15	KNG1015	Door Inner Garnish Molding	2011. 08
10	GMW3029P-PA6-GF20H	PA6-GF20	KNG1020	Recliner Knob etc.	2011. 08
11	GMW3029P-PA6-GF30H	PA6-GF30	KNG1030	Air intake manifold etc.	2010. 08
12	GMW3029P-PA6-GF35H	PA6-GF35	KNG1035	Air intake manifold etc.	2010. 11
13	GMW16279P-PA6-M25GF15	PA6-(M25+GF15)	KNG1040CW	Inside Door Handle	2013. 12
14	GMW8753P-PA6-GB20-GF10H	PA6+(GB20+GF10)	KNH1012	IEC BOX(Main body, Fuse Plate)	2014. 02
15	GMW15674P-PP/PE-T20	PP/PE-M20	KPT1020	IEC/Aux Box(Cover) etc.	2010. 07
16	GMW16528P-PP-TD20	PP-TD20	KPT1020H	AIR CLEANER	2020. 06
17	GMW16528P-PP-TD30	PP-TD30	KPT1030	Block Fuse(Cover), Block ASM-ENG WRG,HARN JUNC(Bracket)	2015. 10
18	GMW16607P-PP-GF20	PP-GF20	KPG1020	Block ASM-ENG WRG HARN JUNC(Cover)	2015. 10
19	GMW16211P-PP-GF30-T1	PP-GF30	KPG1030	Water deflector Panel	2011. 10
20	GMW16211P-PP-GF45-T3	PP-GF45	KPG1045	Base Bracket	2015. 10
21	GMW15890P-PP-GF30	PP-LGF30	KPL1030	Shroud	2017. 06
22	GMW15890P-PP-GF30E	PP-LGF30(Impact Modified)	KPL1030I	PAB PP Housing	2014. 01
23	GMW15890P-PP-GF50	PP-LGF50	KPL1050	Outside rearview mirror bracket	2014. 01
24	GMW15702-435180	PA66+PA6+PE	KDE1020	Seat Guide Sleeve	2011. 09
25	GMW15702-430004	PA66+PA612-GF33	KDG1133CR	CaCl2 resistance Radiator Tank (GMUZ J200 B15D)	2013. 04
26	GMW15702-430009	PA66-(GF20+CF10)	KDGK1021	Fuel Filter Top Housing	2014. 03
27	GMW15702-435126	PA6-GF60	KNG1060	Mirror Frame etc.	2011. 11
28	GMW15702-404252	PP-GF30	UG13190	Drain Channel(Sunroof)	2012. 02
29	GMW15702-400076	PP-GF45	UG13005	Front beam(Sunroof)	2012. 02
30	GMW15702-475524	PBT-GF30	KBG1030	PEDAL ECU COVER	2011. 11

EP Customer Specification

BGFecomaterials holds about 150 global customer specification which proves company's engineering plastic technology.

General Motors 6 types Certified for localization in North America (Georgia, USA)

NO.	Spec	Material	Grade	Application	Approved date
1	GMW3038P-PA66-GF35H	PA66-GF35	KDG1035	Pedal Member	2015. 01
2	GMW3038P-PA66-GF45H	PA66-GF45	KDG1045	Gear Shifter	2015. 01
3	GMW3038P-PA66-GF50H	PA66-GF50	KDG1050	Gear Shifter	2015. 01
4	GMW16211P-PP-GF45-T3	PP-GF45	KPG1045	Gear Shifter	2015. 04
5	GMW16528P-PP-TD20	PP-TD20	KPT1020H	HVAC	2015. 11
6	GMW16528P-PP-TD30	PP-TD30	KPT1030	Head Lamp Housing	2015. 11

4 types Certified for localization in China SGM PATAC

NO.	Spec	Material	Grade	Application	Approved date
1	GMW3038P-PA66-GF50H	PA66-GF50	KDG1050	Underhood, Interior, Exterior Parts	2015. 12
2	GMW3029P-PA6-GF30H	PA6-GF30	KNG1030	Underhood, Interior, Exterior Parts	2015. 12
3	GMW16211P-PP-GF30-T1	PP-GF30	KPG1030	Underhood, Interior, Exterior Parts	2016. 05
4	GMW16607P-PP-GF50	PP-GF50	KPG1050	Underhood, Interior, Exterior Parts	2017. 02

GMK (EDS Material Standard)

NO.	Spec	Material	Grade	Application	Approved date
1	EDS-M-5165-01	PA66+GF35%	KDG1035	Cam cover, Pedal, Cylinder head cover etc.	2009. 12
2	EDS-M-5171-01	PA66+GF/MF 40%	KDX1083	Fan/Shroud	2009. 12
3	EDS-M-5123-21	PA6+GF30%	KNG1030	Door Handle etc.	2010. 05
4	EDS-M-5111-31	PA6+MF25%	KNU1061	Wheel cover etc.	2010. 05
5	EDS-M-5129-01	PA6+MF/GF 20%	KNX1014	Engine Beauty cover	2010. 10
6	EDS-M-5161-11	PA66+GF15%	KDG1015	Engine Beauty cover	2010. 10
7	EDS-M-5173-01	PA6/66 TD30%	KDT1030	Engine Beauty cover	2011. 03
8	EDS-M-5102-31	PA6 High Impact	KNE1015	Cargo Bracket	2011. 08
9	EDS-M-4233	PP-TD30	KPT1030	Air Filter	2017. 09

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