

AAB POLYMER & COMPOUNDS PVT. LTD
www.aabpolymer.com



AAB POLYMER & COMPOUNDS

PVT . LTD

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OUR TEAM

Director

Mr. Brij Mohan Bhartunia

Director

Ashu Mittal

CEO & Head Of Finance

Mr. Ashish Mittal

Technical Head Yogesh Kaushik	Plant Head Amit Sonker
Purchase Head Monika Sharma	Production Head Anuruddh Katiyar
Ops Manager Gaurav Mittal	Accounts Manager Vishal Deswal
BDM Abhishek Singh	Quality Check Gawaskar



TABLE OF CONTENTS

About Our Company

Our Core Values

Why Choose Us

Our Vision

Our Mission

Infrastructure

Infrastructure Cont.

Quality Assurance

Quality Assurance

Products we Offer

- Nylon 6
- Nylon 66
- ABS
- PC
- PBT
- HIPS
- PP

Industries We Serve

Our Top Clients

Contact Us

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17

18

19



ABOUT OUR COMPANY

AAB Polymers & Compounds is a best and trusted polymer compounds manufacturer in India. Established with a vision to revolutionize the engineering polymer compounds industry, we have rapidly grown into a name synonymous with quality, reliability, and innovation in the Indian polymer manufacturing landscape.

We emerged as a trusted Polymer Compounds manufacturer since our inception in 2023, leveraging on our high-end knowledge and expertise in the domain of organic compounds. Our founding team brings together decades of combined experience in polymer science, chemical engineering, and industrial manufacturing, ensuring that every compound we produce meets the most exacting standards of the modern industry.

Our company has launched its new range of engineering compounds under the brand name AAB Polymer & Compounds. We are a trusted manufacturer and supplier of various polymers such as Nylon 6, Nylon 66, PC, PC/ABS Alloy, ABS, PBT, PP, HIPS, PPCP, TPE. Our state-of-the-art facility in Bahadurgarh, Haryana is equipped with advanced twin-screw extrusion lines, comprehensive testing laboratories, and dedicated R&D infrastructure to serve the growing demands of India's manufacturing sector.

Company at a Glance

Parameter	Details
Company Name	AAB Polymer & Compounds Pvt. Ltd
Year of Establishment	2023
Registered Office	Plot No. 74,884, MIE, Bahadurgarh, Haryana (124507)
Nature of Business	Manufacturer & Supplier of Engineering Polymer Compounds
Core Products	Nylon 6, Nylon 66, ABS, PC, PC/ABS Alloy, PBT, PP,, HIPS, TPE,PPCP
Target Industries	Electrical, Household, Medical, Pneumatics, Personal Care, Home Appliances, Agriculture
Quality Testing	MFI, Izod Impact, Tensile, Flexural, Modulus, Specific Gravity, Color matching booth, Moisture Analysis, Glowite, Muffle Furnace, HDT Apparatus, Melting Point
Website	www.aabpolymer.com
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Phone	+91-8010294356 & +91-9650855508



OUR CORE VALUES

At AAB Polymer & Compounds, our operations are guided by a set of fundamental values that shape every decision we make - from raw material sourcing to final product delivery. These values are not just words on paper; they are the principles that drive our daily operations and long-term strategy.



Quality Excellence

We never compromise on quality. Every batch undergoes rigorous testing across multiple parameters including MFI, impact strength, tensile strength, and color consistency. Our commitment to quality is reflected in our zero-defect philosophy and comprehensive quality management system.



Customer Partnership

We believe in building lasting relationships with our clients. Our technical team works closely with customers from the initial material selection phase through production optimization, ensuring the final compound perfectly meets their application requirements.



Innovation & Research

Continuous investment in R&D enables us to develop new formulations and improve existing ones. Our dedicated research facility focuses on creating compounds with enhanced properties, better processability, and reduced environmental impact.



Environmental Responsibility

We are committed to sustainable manufacturing practices. Our processes are designed to minimize waste, reduce energy consumption, and lower our carbon footprint. We actively explore bio-based and recyclable polymer alternatives for a greener future.



Integrity & Transparency

We operate with complete transparency in all our business dealings. From honest pricing to accurate technical data sheets, our clients can trust that every interaction with AAB is built on a foundation of integrity and mutual respect.



Continuous Improvement

We embrace a culture of continuous improvement across all functions. Through regular process audits, employee training, and technology upgrades, we ensure that our manufacturing capabilities stay at the cutting edge of the polymer compounding industry.





OUR PROCESSES



The real difference is process expertise with efficient implementation. We rely on processes with a high degree of automation at our state-of-the-art production plant. Our automated solutions combine the strengths of our workforce with all the technical possibilities available to them to create stable, repeatable, and scalable processes that deliver consistent quality in every batch we produce.

Our manufacturing workflow is designed to ensure maximum efficiency while maintaining the highest quality standards. From raw material reception to final packaging, every step is monitored, documented, and optimized for performance.

Process Workflow

Step	Process	Description
1	Material Inspection	Every incoming raw material batch is tested for purity, moisture content, and specification compliance before acceptance into our inventory.
2	Formulation & Weighing	Precise digital weighing systems ensure accurate dosing of polymers, additives, stabilizers, and reinforcements per the approved formulation.
3	Pre-Mixing & Blending	High-speed mixers create homogeneous pre-mixes ensuring uniform distribution of all additives throughout the compound matrix.
4	Twin-Screw Extrusion	Co-rotating twin-screw extruders with multiple temperature zones provide thorough melting, mixing, and compounding under controlled conditions.
5	Pelletizing & Cooling	Strand pelletizers produce uniform granules that are rapidly cooled and dried to maintain optimal moisture levels for processing.
6	Quality Testing	Every batch is sampled and tested across 8+ parameters before clearance for dispatch, ensuring consistent specification compliance.
7	Packaging & Dispatch	Moisture-barrier packaging with proper labeling, batch coding, and certificate of analysis accompanies every shipment.

Process Capabilities

Twin-Screw Extrusion

Advanced co-rotating twin-screw extruders for homogeneous compounding with precise shear control

PLC Automation

Programmable logic controllers ensuring precise temperature, speed, and pressure management

Batch Consistency

Automated gravimetric dosing and mixing for repeatable quality across production runs

Eco-Friendly Process

Sustainable manufacturing minimizing waste, emissions, and environmental footprint

Custom Formulation

Tailored compound recipes developed in-house for specific client application needs

Real-Time Monitoring

Continuous in-process quality monitoring at every critical production checkpoint



WHY CHOOSE US

AAB Polymers & Compounds believes in providing highest quality to its customers which helps them in gaining success and a competitive edge in the market. In addition to this, we also work on the development of new products in close association with the customers thus providing them cost space Issue. advantage along with superior quality.

Choosing the right polymer compound partner is critical to your product's success. Here is why leading manufacturers across India trust AAB as their preferred compound supplier:



Superior Product Quality

Consistent, high-grade compounds manufactured using premium raw materials sourced from globally reputed suppliers. Every batch meets or exceeds international quality standards.



Cost-Effective Solutions

Competitive pricing structure without compromising on material performance. Our efficient processes and strategic sourcing ensure the best value for your investment.



Custom Formulations

Tailored compound solutions developed in close collaboration with your engineering team. We modify base formulations to meet your exact mechanical, thermal, and aesthetic requirements.



Technical Expertise

Our experienced engineering team provides comprehensive technical support from material selection through processing optimization, helping you achieve the best results with our compounds.



Reliable & Timely Delivery

Robust supply chain management and strategic inventory planning ensure that every order is delivered on schedule. We understand that production delays cost money. We follow 5S (Sort, Set in Order, Shine , Standardise, Sustain)



Eco-Friendly Manufacturing

Sustainable production practices that minimize environmental impact. Our green initiatives include waste reduction, energy optimization, and exploration of bio-based material alternatives.



Comprehensive Quality Documentation

Every shipment includes a detailed Certificate of Analysis (COA) with complete test data, ensuring full traceability and specification compliance verification.



Flexible Order Quantities

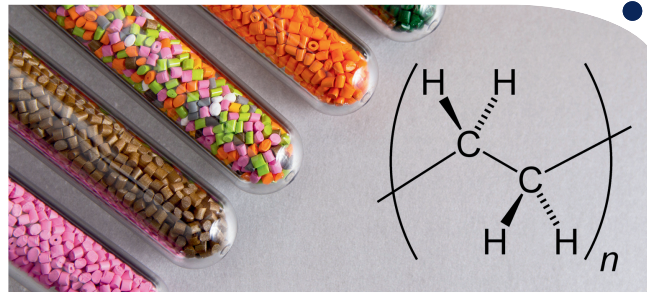
We accommodate both small trial quantities for evaluation and large-scale production volumes, making it easy for businesses of all sizes to partner with us.

Your Success is Our Business. Partner with AAB Today.



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OUR VISION

We aim to be a preferred and strategic channel partner to the molders of electronic, electrical and automobile industry by offering them our AAB POLYMER & COMPOUNDS to offer multi-property solutions in a single material, lower the manufacturing costs and speeding process time for product designers and engineers to realize their vision.

Vision Pillar	Our Commitment
Strategic Partnership	To become the most preferred polymer compound partner for leading OEMs and Tier-1 manufacturers across India and eventually in international markets.
Innovation Leadership	To continuously pioneer new compound formulations that address emerging industry challenges, from lightweighting in automotive to flame retardancy in electronics.
Multi-Property Solutions	To develop advanced compounds that combine multiple desirable properties in a single material, reducing the need for secondary operations and multi-material assemblies.
Manufacturing Excellence	To achieve world-class manufacturing efficiency through automation, digitalization, and continuous process improvement across our production facility.
Sustainability Focus	To lead the industry in sustainable polymer compounding by investing in recycled content integration, bio-based alternatives, and carbon-neutral manufacturing processes.

OUR VISION STATEMENT

To be India's most trusted and innovative engineering polymer compounds manufacturer, empowering our customers to build world-class products through superior material solutions, cutting-edge technology, and an unwavering commitment to quality and sustainability.



OUR MISSION

If you are in the process of application development, let us solve your material challenge by formulating a customized thermoplastic compound optimized enough to make your product a success. Our mission drives everything we do - from research and development to manufacturing and customer service.

OUR MISSION STATEMENT

To deliver innovative, high-performance polymer compound solutions that empower our customers to manufacture world-class products. We achieve this through relentless focus on quality, customer collaboration, sustainable practices, and continuous technological advancement.

We Are Committed To:

- Delivering innovative polymer solutions that consistently exceed customer expectations in performance, quality, and value. We measure our success by the success of our customers' products.
- Maintaining the highest standards of product quality and batch-to-batch consistency through rigorous testing, process control, and continuous improvement in our manufacturing systems.
- Operating with environmental responsibility at every step of our manufacturing process, from raw material sourcing to waste management and energy consumption optimization.
- Building long-term partnerships through trust, reliability, and transparent business practices. We believe that mutual growth is the foundation of sustainable business.
- Continuously investing in research and development for next-generation compound materials that address emerging industry challenges and future market requirements.
- Empowering our workforce through regular training, skill development, and a culture of excellence that fosters innovation, ownership, and professional growth.

From Concept to Compound - We Deliver Excellence at Every Stage



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INFRASTRUCTURE

Our experienced engineers and technicians have excellent knowledge of our industry. Because of their far-reaching experience they are able to react flexibly to the changing demands of the market. The engineering team's high competence and creativity is supported by our corresponding Equipments. For this reason we are able to guarantee the best possible solutions to our customers.

The company has invested in state-of-the-art machinery and Laboratory equipment and technology for developing its new range to provide value-added products and services with innovative solutions to its customers. Our facility is designed for both current production needs and future capacity expansion.

Manufacturing Infrastructure

Extrusion Lines

Advanced twin-screw extruders with multi-zone temperature control and high-torque drives for optimal compounding

Testing Laboratory

Fully equipped QA lab with MFI tester, UTM, impact tester, muffle furnace, and spectrophotometer

R&D Center

Dedicated research facility for new product development, formulation optimization, and material testing

Material Handling

Automated pneumatic conveying, gravimetric dosing, and precision weighing systems

Color Matching

X-Rite spectrophotometer and color cabinet for precise color measurement and batch matching

Storage Facility

Climate-controlled warehousing for raw materials and finished goods with proper inventory management



UTM



UTM



IZOD IMPACT



INFRASTRUCTURE cont.



UTM



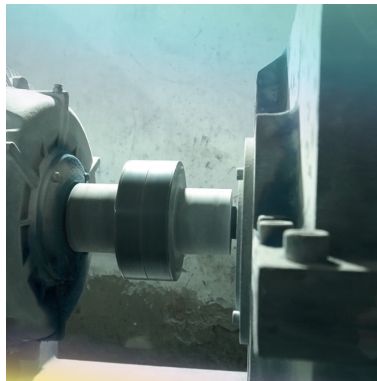
MFI



TWIN SCREW



FEEDER



UTM

Our Team

Our multidisciplinary team comprises polymer scientists, chemical engineers, process engineers, quality analysts, and experienced production specialists. Together, they bring a wealth of knowledge in thermoplastic compounding, material characterization, and application engineering. Regular training programs and industry exposure ensure our team stays ahead of the curve.

- Polymer science and formulation development expertise
- Process engineering and extrusion technology optimization
- Material testing, characterization, and failure analysis
- Application engineering and customer technical support
- Quality management and statistical process control
- Supply chain management and logistics coordination



QUALITY ASSURANCE

Before dispatch, each batch undergoes a comprehensive quality check, as we firmly believe in upholding the highest levels of customer satisfaction. Our testing parameters encompass vital metrics such as melt flow index, notched Izod impact, flexural strength, tensile strength, modulus, specific gravity, color cabinet, glow wire and muffle furnace, ensuring that every product meets our exacting specifications.

Our quality assurance philosophy is simple: test everything, document everything, and never ship a product that does not meet specifications. This commitment to quality has earned us the trust of leading manufacturers across India.

Testing Parameters & Standards

Test Parameter	Standard	Purpose & Description
Melt Flow Index (MFI)	ASTM D1238	Measures polymer flow rate under controlled heat and load to verify processability
Notched Izod Impact	ASTM D256	Evaluates material resistance to sudden impact forces and determines toughness characteristics
Flexural Strength	ASTM D790	Determines material resistance to bending and deformation under static loading conditions
Tensile Strength	ASTM D638	Measures maximum stress a material can withstand before fracture under pulling force
Modulus of Elasticity	ASTM D790	Assesses material stiffness, elastic behavior, and structural rigidity under stress
Specific Gravity	ASTM D792	Determines density relative to water for consistency verification and filler content check
Color Matching	Visual/Spectro	Ensures color accuracy and batch-to-batch visual uniformity using spectrophotometry
Ash Content	ASTM D5630	Analyzes filler loading, ash content, and thermal stability using muffle furnace testing

Every Batch is Tested. Every Shipment is Certified. Zero Compromises on Quality.



PRODUCT OVERVIEW

AAB Polymer & Compounds offers a comprehensive range of engineering thermoplastic compounds designed to meet the diverse requirements of modern industries. Each product is engineered with precision to deliver superior performance, consistency, and reliability across the most demanding applications.

Our product portfolio spans five major polymer families, each available in multiple grades with varying reinforcement levels, flame retardant options, UV stabilization, and custom color matching. Whether you need a standard grade or a highly specialized formulation, our team can develop the right compound for your application.

Product	Full Name	Key Characteristics	Primary Industries
Nylon 6	Polyamide 6	Most used automotive thermoplastic. Excellent chemical & temperature resistance.	Automotive,Industrial
Nylon 66	Polyamide 66	Superior heat resistance and mechanical strength. Preferred for high-temp applications.	Automotive,Electrical
ABS	Acrylonitrile Butadiene Styrene	Excellent surface finish, impact resistance, and versatile processability.	Household,Electronics
PC	Polycarbonate	Outstanding optical clarity, impact resistance, and thermal stability.	Electrical, Lighting
PBT	Polybutylene Terephthalate	Fast crystallization, excellent electrical insulation and chemical resistance.	Electrical, Medical
HIPS	High Impact Polystyrene	consumer goods, packaging, and industrial applications	Packaging
PP	Polypropylene	packaging, automotive parts, textiles, and medical devices	Electronic Appliances

Available Compound Modifications

- Glass fiber reinforcement (10%, 15%, 20%, 25%, 30%, 33%, 40%, 50%)
- Mineral filled grades (talc, calcium carbonate, mica, wollastonite)
- Flame retardant grades (V0, V1, V2 as per UL 94 classification)
- UV stabilized grades for outdoor and weather-exposed applications
- Impact modified grades with enhanced toughness and ductility
- Heat stabilized grades for elevated temperature service conditions
- Custom color matching to Pantone, RAL, or customer-supplied samples
- Conductive and anti-static grades for ESD-sensitive applications
- Food contact and medical grade formulations where required
- Lubricated grades for improved mold release and reduced wear



NYLON 6

Nylon 6 is the most used engineering thermoplastic in the automotive industry today due to its durability, work ability, and temperature/chemical resistance. The material is typically found in engine compartments, where it is exposed to harsh temperatures and fluids such as engine lubricants. Its excellent balance of strength, toughness, and processability makes it the material of choice for demanding under-the-hood and structural components. At AAB, our Nylon 6 compounds are manufactured using premium-grade polyamide 6 resin combined with carefully selected additives and reinforcements. Available in natural, black, and custom colors with glass fiber reinforcement levels ranging from unfilled to 50% GF. Our Nylon 6 portfolio includes standard, impact-modified, flame-retardant, and heat-stabilized grades.

Key Properties

UV Resistance	Good Flame Resistance	High Gloss Finish	Opaque & Non Opaque	Crack Resistant
Cost Effective	Dimensional Stability	Good Impact Strength	High Viscosity	Good Processability

Available Grades

Grade	Reinforcement	Description
Nylon 6 Natural	Unfilled	General purpose, natural color, balanced mechanical properties
Nylon 6 GF15	15% Glass Fiber	Enhanced stiffness and strength with good impact retention
Nylon 6 GF20	20% Glass Fiber	Higher rigidity for structural applications requiring stability
Nylon 6 GF25	25% Glass Fiber	Optimum balance of strength, stiffness, and processability
Nylon 6 GF30	30% Glass Fiber	High strength grade for demanding structural components
Nylon 6 GF33	33% Glass Fiber	Industry-standard reinforcement for automotive applications
Nylon 6 FR V0	Flame Retardant	UL 94 V0 rated for electrical and electronic applications
Nylon 6 HS	Heat Stabilized	Extended thermal aging performance for under-hood applications

Applications: Engine covers, radiator end tanks, intake manifolds, oil pans, fan shrouds, wire harness connectors, cable ties, fuel rail covers, coolant reservoirs, air ducts



NYLON 66

Nylon 66 is a polyamide, a polymer derived from the condensation reaction of monomers containing terminal carboxylic acid (-COOH) and amine (-NH₂) groups. Three crystalline phases (alpha, beta and gamma) have been reported. Lath shaped single crystals have been obtained by solution crystallization methods using a number of organic solvents.

Known for its superior heat resistance and mechanical strength compared to Nylon 6, Nylon 66 offers exceptional dimensional stability under thermal stress and is the material of choice for high-temperature electrical and automotive applications. Our Nylon 66 compounds are formulated for maximum performance with options for glass fiber reinforcement, impact modification, and flame retardancy.

Key Properties

Good Processability	Heat Resistant	High Gloss Finish	High Rigidity	Good Flowability
Good Electrical Insulation	Dimensional Stability	Superior Flexural Property	Low Moisture Absorption	

Available Grades

Grade	Reinforcement	Description
Nylon 66 Natural	Unfilled	General purpose grade with higher melting point than Nylon 6
Nylon 66 GF15	15% Glass Fiber	Enhanced mechanical properties for semi-structural parts
Nylon 66 GF25	25% Glass Fiber	High-performance grade for structural applications
Nylon 66 GF30	30% Glass Fiber	Standard automotive grade for under-hood components
Nylon 66 GF33	33% Glass Fiber	Premium strength grade for high-load bearing applications
Nylon 66 GF50	50% Glass Fiber	Maximum reinforcement for metal replacement applications
Nylon 66 FR V0	Flame Retardant	UL 94 V0 rated for high-temperature electrical applications
Nylon 66 IM	Impact Modified	Enhanced toughness for cold-temperature impact resistance

Applications: Automotive connectors, cable ties, gear wheels, structural brackets, electrical housings, zip fasteners, thermal management components, high-temp relay housings



ABS

Acrylonitrile Butadiene Styrene (ABS) is one of the most widely used engineering thermoplastic in automotive, electrical, household industries. We make our ABS compound using the best quality raw material and additives purchased from all over the world. ABS offers an excellent combination of impact resistance, surface finish quality, and processability, making it a versatile material for products requiring both aesthetic appeal and functional durability. Our ABS compounds are available in standard, high-impact, flame-retardant, and electroplating grades with extensive color matching capabilities.

Key Properties

Good Processability	Heat Resistant	High Gloss Finish	Good Colour Strength	Good Flowability
Good Paintability	Dimensional Stability	Good Impact Strength	Good Chemical Resistance	

Available Grades

Grade	Type	Description
ABS General Purpose	Standard	Balanced properties for general injection molding applications
ABS High Impact	Impact Modified	Enhanced toughness for applications requiring drop resistance
ABS High Flow	Flow Enhanced	Improved flowability for thin-wall and complex mold geometries
ABS High Gloss	Surface Enhanced	Superior surface finish for visible consumer product parts
ABS FR V0	Flame Retardant	UL 94 V0 rated for electronic and electrical enclosures
ABS Plating Grade	Electroplating	Specially formulated for chrome and metal plating adhesion
ABS/PC Alloy	PC Blend	Enhanced heat resistance and impact combining ABS and PC properties
ABS Natural	Unfilled	Natural color base for custom color matching applications

Applications: Automotive dashboards and trims, home appliances, electronic housings, toys, luggage, power tool casings, keyboard keys, printer housings, bathroom fittings



PC

Polycarbonate (PC) is a high-performance amorphous engineering thermoplastic widely used in automotive, electrical, and industrial applications. We manufacture our PC compounds using premium-grade raw materials and advanced additives sourced globally, ensuring consistent quality and performance. PC offers exceptional impact strength, optical clarity, and heat resistance, making it ideal for demanding applications requiring durability and aesthetics.

Our PC compounds are available in a wide range of grades including general purpose, glass-filled, flame-retardant, UV-stabilized, and alloy variants, with excellent color matching capabilities to meet specific customer requirements.

Key Properties

Good Impact Strength	Heat Resistant	High Optical Clarity	Good Flame Resistance	UV Stability
Good Dimensional Stability	High Strength	Good Surface Finish	Electrical Insulation	Good Processability

Available Grades

Grade	Type	Description
PC General Purpose	Impact Modified	Balanced optical clarity and mechanical performance
PC High Impact	Modified	Enhanced low-temperature impact strength for safety applications
PC GF10	10% Glass Fiber	Enhanced low-temperature impact strength for safety applications
PC GF20	20% Glass Fiber	High rigidity for structural components
PC GF30	30% Glass Fiber	Maximum reinforcement for metal replacement applications
PC FR V0	Flame Retardant	UL 94 V0 rated for electrical and lighting applications
PC/ABS Alloy	ABS Blend	Combines processability of ABS with PC heat and impact resistance
PC UV Stabilized	UV Protected	Enhanced weatherability for outdoor and UV-exposed

Applications : Used in automotive headlamp lenses, electrical housings, and lighting diffusers. Also applied in safety helmets, medical device housings, optical media, and greenhouse panels.



PBT

Polybutylene terephthalate (PBT) is a crystalline, high molecular weight polymer made through condensation and has an excellent balance of properties. Because the material crystallizes so rapidly, mold cycles are short and a lower molding temperature compared to many other engineering plastics.

Our PBT compounds are suitable for a number of fields such as automotive, electrical, furniture, construction/sanitary, sports, safety and medical equipment. Its exceptional chemical resistance, low moisture absorption, and excellent electrical insulation properties make it the material of choice for connector and housing applications in the electrical and electronics industry.

Key Properties

Good Processability	Heat Resistant	High Gloss Finish	High Rigidity	Good Flowability
Good Electrical Insulation	Dimensional Stability	Superior Flexural Property	Low Moisture Absorption	

Available Grades

Grade	Type	Description
PBT Natural	Unfilled	General purpose grade with excellent surface finish and fast cycling
PBT GF15	15% Glass Fiber	Enhanced stiffness for semi-structural electrical components
PBT GF20	20% Glass Fiber	Balanced reinforcement for connectors and housings
PBT GF25	25% Glass Fiber	Higher rigidity for demanding electrical applications
PBT GF30	30% Glass Fiber	Standard electrical grade for connectors and terminal blocks
PBT FR V0	Flame Retardant	UL 94 V0 rated for critical electrical safety applications
PBT GF30 FR	30% GF + FR	Combined reinforcement and flame retardancy for electrical parts
PBT IM	Impact Modified	Enhanced toughness for automotive exterior trim applications

Applications: Automotive ECU housings, electrical connectors, switches, lighting fixtures, sensor housings, pump impellers, coil bobbins, relay housings, motor fan blades



HIPS

High Impact Polystyrene (HIPS) is a versatile, amorphous thermoplastic modified with rubber to improve impact resistance. It offers an excellent balance of toughness, ease of processing, and cost-effectiveness, making it widely used in consumer goods and packaging. HIPS is known for its good dimensional stability, ease of thermoforming, and smooth surface finish. It is commonly used in applications where moderate strength and high aesthetic quality are required.

Key Properties

Good Impact Resistance	Excellent Processability	Excellent Processability	Smooth Surface Finish	Cost Effective
Easy Thermoforming	Moderate Chemical Resistance	Good Printability	Lightweight	

Available Grades

Grade	Type	Description
HIPS General	Impact Modified	Balanced impact strength and processability for general applications
HIPS High Impact	Rubber Modified	Enhanced toughness and resistance to cracking
HIPS Medium Flow	FDA Compliant	Improved flow for detailed mold designs
HIPS High Flow	Thin Wall	Excellent flow for thin-wall applications
HIPS Flame Retardant	FR Additive	Suitable for electrical and safety applications
HIPS UV Stabilized	UV Protected	Improved resistance to UV and weathering
HIPS Food Grade	Easy Processing	Safe for food packaging applications

Applications: Packaging trays, refrigerator liners, display housings, toys, disposable items, point-of-sale displays, appliance components.



PP COMPOUND

Polypropylene (PP) is a semi-crystalline thermoplastic known for its excellent chemical resistance, low density, and high fatigue resistance. It is one of the most widely used plastics across multiple industries due to its versatility and cost efficiency. PP offers a unique combination of stiffness, toughness, and resistance to chemicals and moisture. It performs well in both rigid and flexible applications and can be easily modified with fillers and additives.

Key Properties

Excellent Chemical Resistance	Lightweight	Good Impact Resistance	High Fatigue Resistance	Good Heat Resistance
Moisture Resistant	Cost Effective	Good Processability		

Available Grades

Grade	Type	Description
PP Homopolymer	High Stiffness	High rigidity and good chemical resistance
PP Copolymer	Clarity Enhanced	Improved transparency and flexibility
PP Copolymer (Impact)	Impact Modified	Superior impact strength, especially at low temperatures
PP Glass Filled	10–40% Glass Fiber	Increased stiffness and dimensional stability
PP Flame Retardant	FR Additive	Suitable for electrical and automotive parts
PP UV Stabilized	UV Protected	Safe for food packaging applications
PP High Flow	Easy Processing	Excellent moldability for complex parts
PP Food Grade	FDA Compliant	Suitable for food contact applications

Applications: Automotive parts, packaging, medical devices, household goods, containers, caps & closures, textiles, piping systems.



INDUSTRIES WE SERVE

Our engineering compounds serve a wide range of industries, providing specialized material solutions that meet the unique demands of each sector. From under-the-hood automotive components to precision medical device housings, AAB compounds are engineered to perform in the most demanding environments.

Industry	Key Applications	Recommended
Automobile	Includes engine covers, radiator end tanks, intake manifolds, and fuel system components. Also used in connectors, dashboard trims, mirror housings, and under-hood brackets.	Nylon 6, Nylon 66, ABS, PBT
Electrical	Used for switchgear housings, circuit breaker parts, and terminal blocks. Also applied in cable insulation, relay housings, sensor casings, and connectors.	Nylon 66, PC, PBT, ABS
Household	Applications include kitchen appliances, storage containers, and power tool housings. Also used in mixer bodies, fan blades, dispensers, and cosmetic packaging.	ABS, PC, PP, Nylon 6
Personal Care	Used in device housings, connectors, and diagnostic equipment parts. Also applied in surgical handles, lab casings, and pump components.	ABS, PC, PP
Medical Equipment	Includes valves, connectors, tubing components, and quick-release couplings. Also used in push-in fittings and pneumatic-related medical parts.	PC, PBT, Nylon 66
Pneumatics	Applications include valves, fittings, and pneumatic cylinders. Also used in connectors and airflow control components.	Nylon 6, Nylon 66, PBT
Agriculture	Used in irrigation systems, pipe fittings, and sprinkler components. Also applied in pump housings, seed equipment, and greenhouse fittings.	Nylon 6, Nylon 66, PP, HDPE
Home Appliances	Includes washing machine parts, refrigerator components, and AC housings. Also used in microwave parts, vacuum bodies, and control panels.	ABS, PP, PC, HIPS

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OUR TOP CLIENTS



HAVELLS

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SUNPLAST®
DELIVERING EXCELLENCE IN PLASTICS



Contact US



We welcome the opportunity to discuss how AAB Polymer & Compounds can support your material requirements. Our team of experts is ready to assist you with product selection, custom formulations, technical guidance, and sample requests. Whether you are developing a new product or optimizing an existing one, we are here to help you find the perfect material solution for your application.

REGISTERED OFFICE AAB Polymer & Compounds Pvt. Ltd

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How We Can Help You



Material Selection Guidance

Expert recommendations on choosing the right polymer compound for your specific application requirements and processing conditions.



Custom Compound Development

Tailored formulations designed from scratch to meet your unique product specifications for mechanical, thermal, and aesthetic properties.



Technical & Processing Support

End-to-end engineering assistance from material design phase through injection molding optimization and troubleshooting.



Sample & Trial Quantities

Evaluation samples with complete technical data sheets for your testing, validation, and mold trial requirements.



Volume Production Supply

Reliable large-scale production capability with consistent quality, competitive pricing, and on-time delivery commitment.



Quality Documentation

Comprehensive Certificate of Analysis (COA), material safety data sheets (MSDS), and test reports with every shipment.

We Look Forward to Being Your Trusted Partner in Polymer Solutions. Contact Us
Today!

This document is the intellectual property of AAB Polymer & Compounds. The information contained herein is confidential and intended for business evaluation purposes only. For the most up-to-date product specifications and technical data sheets, please visit www.aabpolymer.com or contact our sales team directly. Product specifications are subject to change without prior notice. Please contact us for the latest technical data sheets.

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**“Enhancing Your Plastics,
One Batch At a Time”**