

FORMPOLY®

m-PPO, ABS, SAN, PPS



FORMULATE YOUR SUCCESS WITH FORMULATED POLYMERS

FORMULATED POLYMERS LIMITED, the professionally managed company established in 1993 with an objective to design and manufacture a comprehensive range of Thermoplastic Compounds, specialising in Engineering Plastics under the brand name **FORMPOLY®**.

Over the years, **FPL** has established 400 grades in 10 engineering polymers mostly specialising in niche compounds. **FPL** has approvals from various OEMs serving large sectors of industries with product reach internationally.

FPL is powered by cutting-edge expertise paving its way to cost effective manufacturing and has grown into a mammoth figure in the industry with a wide-spread reach.

FPL facilities are certified to **ISO 9001**; **ISO/TS 16949** and **ISO 14001** quality systems. **FPL** combining a strong technology base with application expertise, design and manufacture Engineering Plastic from relatively inexpensive compounds to sophisticated high end engineering plastic compounds.

FORMPOLY® modified Poly Phenylene Ether (m-PPO) Grades

GRADE	DESCRIPTION	CHARACTERISTICS	APPLICATIONS	
Unfilled Grades				
PPOGP35E	General Purpose extrusion	Controlled viscosity, uniform flow, good gauge control	Sheets, Profile extrusion parts	
PPOGP30	General Purpose moulding	Heat stabilized, nucleated for fast molding cycle with excellent molding and dimensional control	Electrical Appliances, Housing, Automotive Interior and Exterior Parts. Pump parts, Valve parts. Medical, and Food Contact Applications	
Extensions	Prefix	Suffix	Description	Special Characteristics
		HH	High heat grade	Higher HDT and high heat performance
		HF	High flow grade	For longer and thin parts
		HS	Heat stabilized grade	For long high temp exposure parts
	S		Special formulation	Customer specific
Glass Fiber Reinforced Grades				
PPOGF10 PPOGF20 PPOGF30 PPOGF40	10% Glass Fiber 20% Glass Fiber 30% Glass Fiber 40% Glass Fiber	Multipurpose grade. Low warp and easy flow / moulding. Good dimensional stability	High heat applications, Automotive Ignition, Pump Housing / Impellers, Electrical Meter parts. Electrical parts; Water Meter housing	
Extensions	Prefix	Suffix	Description	Special Characteristics
		PW	Potable water certified meets IS 14997 water contact applications	Submersible Pump parts like Housing, Impellers with RoHs compliance
		HH	High Heat grade	Electrical and Electronic parts
		T	Increased toughness grade with higher impact	Automobile applications where impact strength is required
	S		Special formulation	Customer specific
Flame Retardant Grades				
PPOFR90V1	Unfilled FR meets UL94 V1	Moderate strength, easy flow, high gloss	Select grades are available with UL certification Electrical / Electronics parts like TV Deflection Yokes, Bobbins, Audio / Video / Business Machine parts, TV back plates.	
PPOFR90V0	Unfilled FR meets UL94 V0	Easy flow, good impact strength, low smoke		
PPOGF10FR PPOGF20FR PPOGF30FR	Glass Fiber reinforced FR meets UL94 V0	Moderate mechanical strength with low warp molding. Good electrical properties with low moisture absorption		
Extensions	Prefix	Suffix	Description	Special Characteristics
		HH	High heat	Higher HDT / VICAT Temperature
		E	Low viscosity for extrusion	Good dimensional control
		FH	Halogen free system	Meets REACH / RoHS compliance
		P	Phosphorus based system	For selected applications
	S		Special formulation	Customer specific

GRADE	DESCRIPTION	CHARACTERISTICS	APPLICATIONS	
Specialty Grades – PPE / Nylon alloy (GT series)				
PPOGT14	Unfilled	High flexural modulus / HDT	For on line bake painting parts of auto, Cable clip, Fuel caps	
PPOGT74EC	Unfilled electrically conductive	Electro static painting grade. With surface resistivity of 10 ² ohms. Painting efficiency improves multifold	For electro static painting of difficult contours. Fuel door , Front panel, Side cover of two wheeler	
PPOGT10G	10% Glass Fiber	Low warp and easy flow. Easy moulding and dimensional stability	Automotive under-hood stiffer parts, Pump impellers for abrasive fluid, Housing	
PPOGT20G	20% Glass Fiber			
PPOGT30G	30% Glass Fiber			
PPOGT20M	20% Mineral	Low warp, moderate strength	Flat parts, circular parts with multi gate moulding	
Extensions	Prefix	Suffix	Description	Special Characteristics
		T	Higher toughness grade	High impact strength
		HH	High heat grade	Higher HDT and VICAT temperature
		HF	High flow grade	Flows extra length , fills thin sections
	S	P	Special formulation	Customer specific

FORMPOLY® Acrylonitrile Butadiene Styrene (ABS) Grades

GRADE	DESCRIPTION	CHARACTERISTICS	APPLICATIONS	
Unfilled Grades				
ABSGP30	General Purpose moulding	Heat stabilised, excellent surface finish and gloss. Offer good flow and fills thinner sections.	Mixer body, Automotive consoles, UPS body, Vacuum Cleaner wheels, Knobs, Moving Machines Housing	
Extensions	Prefix	Suffix	Description	Special Characteristics
		HF	High flow grade	For longer and thin parts
		HS	Heat stabilized grade	For long high temperature exposure parts
	S		Special formulation	Customer specific
Glass Fiber Reinforced Grades				
ABSGF15 ABSGF20 ABSGF30	15% Glass Fiber 20% Glass Fiber 30% Glass Fiber	Low warp and easy flow / moulding. Good dimensional stability. Excellent mechanical / thermal properties and reduced shrinkage	Textile Pulleys, Air Conditioner Fans, Impellers, Brackets, Motor casing, Meter Housing, Speedometer Housing for OTR vehicles	
Extensions	Prefix	Suffix	Description	Special Characteristics
		WR	Wear resistance improved	Reduced Taber abrasion value
		WRM	Wear resistance modified	Moderate wear resistance
		T	Increased toughness grade with higher impact	Applications where impact strength is required
S		Special formulation	Customer specific	
Heat Resistant Grades				
ABSHR90	HR moulding	Heat Resistant with 95°C HDT , good surface finish and gloss	Automotive Air Conditioner Grills / Lower, Radiator Front Grills, Switch parts, Instrument Cluster panel / Housing, Car Heater parts	
ABSHR110	HR moulding	Heat Resistant with 105°C HDT, high gloss; flows thin sections		
Flame Retardant Grades				
ABSGP30FR	Unfilled FR	Good mechanical and thermal properties, anti dripping, Wide range of colours. Meets UL 94 V0 requirements	Printers, Computer, Fax / Copying Machines parts, Computer / Home Invertors Housing	

FORMPOLY® Styrene Acrylonitrile (SAN) / (ASA) Grades

GRADE	DESCRIPTION	CHARACTERISTICS	APPLICATIONS
Unfilled Grades			
ASAGP30	General Purpose moulding	Excellent UV resistance	For outdoor application requiring long colour resistance / property retention
Glass Fiber Reinforced Grades			
SANGF20 SSAN110	Glass Fiber Reinforced	Low warp and easy flow / moulding. Good dimensional stability. High impact strength	Cluster housing, Blower of air conditioner, Warp free moulding



FORMPOLY® Poly Phenylene Sulphide (PPS) Grades

GRADE	DESCRIPTION	CHARACTERISTICS	APPLICATIONS
Reinforced Grades			
PPSGF40	40% Glass Fiber	Superior strength, flexural modulus, dimensional stability, chemical resistance. Flows well for intricate and precision parts	Chemical Pump Housing, Impellers, Relay Housing, Terminal Blocks, Connectors, Bobbins, Brush Holders, Hot Pan Handles, Steam Valves, Hot water manifolds, Mixer/ Circulation parts, Halogen Bulb Holders, Microwave Oven Turn table gears, Toaster Switches
PPSMF70	GF / Mineral Combination		

In addition to above **FPL** have many other formulations for many end-use applications. **FPL** also has many Application Specific grades and alloys / blends for many specific requirements. May be some of them may suit your requirements also. Call on us to know more about us and about our **FORMPOLY®** product range.

FPL offers the end-user industry, the designer and the processor with a wide range of plastic compounds to meet every application.

FPL's full range of service includes development assistance, custom formulations, product and application guidance.

PACKING

All **FORMPOLY®** products are in pellet form and offered in standard 25 Kg and 500 Kg moisture proof bags. MOQ for Produced for Stock grades are based on packing size mentioned here, and for Produced against Order - depends on the colour, polymer and the same can be provided by your nearest supply chain executive.

PROCESSING

FORMPOLY® grades are designed and manufactured carefully to achieve easy flow, permit thin section moulding, fast solidification and best release property in case of injection moulding and uniform flow with excellent dimension stability in case of extrusion. **FPL** grades are process stabilised for easy processing under wide temperature range.

More details of processing can be seen in compact disc provided for each grade. Ask for assistance to nearest technical services staff to establish the processing and in case of difficulties.

MATERIAL SAFETY DATA SHEET

MSDS for **FORMPOLY®** polymer groups are available. Ask for a copy or can be located in compact disc of **FORMPOLY®** Product Data Sheet.

Notes : _____





Applications



FORMPOLY® Product Range

POLYMERS

- Polyamide – 6 (Nylon 6)
- Polyamide – 66 (Nylon 66)
- Polyamide – 46 (Nylon 46)
- Polyamide – 12 (Nylon 12)
- Mod. Poly Phenylene Ether (m-PPO)
- Poly Phenylene Sulphide (PPS)
- Polypropylene – Homo & Co (PP)
- Acrylonitrile Butadiene Styrene (ABS)
- Styrene Acrylonitrile (SAN)
- Polyacetal – Homo & Co Polymer (POM)

RANGE OFFERED

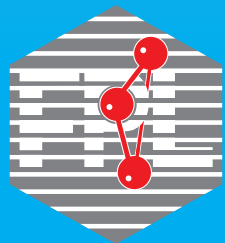
- Glass Fibre Reinforced
- Mineral Reinforced
- Flame Retardant (Halogen and Halogen Free)
- Impact Modified
- Electrically Conductive
- UV Stabilised
- Heat Stabilised
- Antistatic
- Lubricated
- Pre Coloured
- RoHS compliance
- Alloys and Blends

The Recognition Of Excellence



FPL received the **National Award 2009** for outstanding Entrepreneurship from Government of India

Winner of Plasticon Award for being the "Fastest Growing Engineering Plastic Manufacturer in India"



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Manufacturers of Engineering Plastic Compounds

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