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POLYPROPYLENE (PP) – COMPLETE PRODUCT DETAILS

1. POLYPROPYLENE (PP) – OVERVIEW

Polypropylene (PP) is a versatile thermoplastic polymer produced by the polymerization of propylene. It is known for its excellent chemical resistance, high fatigue resistance, good heat resistance, and light weight. PP offers a balance of rigidity and toughness and can be used in a wide range of applications including packaging, automotive, textiles, consumer products, and industrial items.

- **Chemical Formula** : $(C_3H_6)_n$
- **Density** : 0.89 – 0.91 g/cm³
- **Melt Flow Index** : 0.1 – 50 g/10 min (varies by grade as per ASTM D1238)
- **Melting Point** : 160 – 165 °C
- **Heat Deflection Temp** : 90 – 110 °C
- **Tensile Strength** : 25 – 40 MPa
- **Elongation at Break** : 100 – 600 %
- **Features** : Light weight, good chemical resistance, electrical insulation, excellent fatigue resistance, recyclable and food contact safe (in suitable grades).

1A. PP – FILM

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
H100EY	11	RIL	Textile Over Wraps, garment bags, snack food packing
F110	11	HPL	Packaging foodstuffs and garments
FH10S	10	OPAL	Textile Packaging, bread bags, snack food, grocery & general purpose packaging
1100FS	11	IOCL	Textile over wraps, garment bags, snack & bakery foods
F10SR	10.5	HMEL	Packaging foodstuffs and garments, snack food, grocery & general purpose packaging

1B. PP – ICP-IM (INJECTION COPOLYMER – INJECTION MOULDING)

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
MI3530	3	RIL	Furniture, automotive components, industrial products
M340	3.5	HPL	Furniture, automotive components, paint pall, crates
MI03	3.5	OPAL	Industrial moulding, furniture, automotive components
3030MG	3.5	IOCL	Automotive components, appliances, industrial components, caps & closures

1C. PP – RCP (RANDOM COPOLYMER)

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
SRM 100 NC	12	RIL	Rigid containers, houseware, ISBM bottles, syringes
B200	1.9	HPL	General purposes Blow Molded & Thermoformed Items, Sheets for Files & Folders
MR12C	12	OPAL	Rigid Containers, Transparent Housewares, Food Packaging containers, ISBM bottles & containers, Media Packaging
2300MC	30	IOCL	Thin wall Injection Molding, Rigid Containers, Housewares, ISBM products

1D. PP – RAFFIA

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
H030SG	3.4	RIL	Woven fabrics, Sacks & Monofilaments
R103	3	HPL	Woven sacks, FIBC, Ropes & Yarns
RH03	3.3	OPAL	Cement Packaging bags, Fertilizer Packaging bags, Food Grain Packaging bags, Bulk Industrial Packaging (FIBC), General purpose wrapping fabric
1030RG	3.3	IOCL	Fabrics for general packaging, Cement & polymers packaging, Food grains packaging, Carpet packing
R03RR	3.4	HMEL	Tape yarns, Monofilaments, Ropes, Leno bags, Strapping & Thermoforming application

1E. PP – LAMINATION

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
H350FG	38	RIL	Fiber and Filament / Nonwovens
1350YG	35	IOCL	Spun bonded nonwoven fabrics, Fine denier Multifilament yarns
HP 462S	36	Basell	Filament Yarn, Furniture & Buildings, Geotextile & Agriculture, Hygiene Nonwoven, Nonwoven Spunbond, Protective Clothes
1101SC	35	Advanced	Non wovens spun bonded
519A	35	Sabir	Fine filament spun bond fabrics

1F. PP – HP-IM (HOMO POLYMER – INJECTION MOULDING)

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
H110MA	11	RIL	Rigid packaging, furniture & houseware
M103	3	HPL	General Purpose Extrusion & Injection Molding
MH13	13.5	OPAL	Household articles, Consumer Products, Rigid Packaging
H1110MG	11	IOCL	Household article, Rigid Packaging, Furniture
M12RR	12	HMEL	General Purpose Injection Moulding, Container, Toys, Caps, Closures, Furniture, Housewares & Compounding

Note: MFI (Melt Flow Index) is measured as per ASTM D1238 at 230 °C / 2.16 kg (or as specified by producers).

Applications mentioned are typical end uses and may vary based on processing conditions and customer requirements.

ETHYLENE (HDPE)

COMPLETE PRODUCT DETAILS

1. ETHYLENE – OVERVIEW

Ethylene (C₂H₄) is the simplest olefin and a fundamental petrochemical building block. It is a colorless, flammable gas with a slightly sweet odor. Ethylene is mainly produced by steam cracking of hydrocarbons such as naphtha or ethane and is the starting material for a wide range of polyethylene grades and other chemicals.

Chemical Formula	: C ₂ H ₄
Molecular Weight	: 28.05 g/mol
Appearance	: Colorless gas
Odor	: Slightly sweet
Boiling Point	: -103.7 °C
Melting Point	: -169.2 °C
Density (gas, 0 °C)	: 1.178 kg/m ³
Flammability Limits	: 2.7 – 36 vol% in air
Autoignition Temp	: ~450 °C

Key Uses of Ethylene

- Manufacture of polyethylene (HDPE, LLDPE, LDPE)
- Ethylene oxide and ethylene glycol
- Vinyl chloride (PVC)
- Ethanol
- Alpha olefins and many other derivatives

1A. HDPE – HM FILM (BLOWN FILM GRADES)

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
F46003	0.38	RIL	Producing blown film, use in carry bags, co-extruded film structures, general purpose blow molded containers
F5400	0.5	HPL	General Purpose Film as well as very thin Reinforced Bag Applications
F52H04	0.25	OPAL	Tissue-like films, Garment/Grocery/merchandise bags, Disposal waste bags, Shopping/Counter bags
002DF50	0.22	IOCL	Counter bag, Carrier bag, Liners, Wrapping applications
F55HM0003	0.09	GAIL	Carry bags, shopping, bags, trash bags, grocery bags industrial liners

1B. HDPE – INJECTION MOULDING GRADES

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
50MA180	20	RIL	Houseware, storage bins, thin wall moulding
M5018L	20	HPL	General purpose Injection Molding
M5618	18	OPAL	Housewares, Baskets, Buckets, Tubs, Caps & Closures, Thin wall drinking glass/cups
180M50	18	IOCL	Injection molded house ware and thin wall moulded products
I50A180A	20	GAIL	Manufacturing household products like bucket, mug

1C. HDPE – BLOW MOULDING GRADES

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
B56003	1.5	RIL	Packaging of oil, vanaspati, general purpose containers, jerry can
B6401	0.4	HPL	Containers for Lubricants and Edible oils
B6003	0.35	OPAL	Bottles for food, milk packaging, General purpose containers, Lubricant oil containers, Edible Oil containers
012DB54(GPBM)	1.3	IOCL	Containers / bottles upto 5 Litre capacities for packaging of Lube oil, Edible oil, FMCG products, General purpose containers for foodstuffs
B52A003	0.42	GAIL	Containers upto 5L for foodstuffs (edible oil, ghee etc.), lube oil, toiletries, cosmetics, pharmaceuticals

1D. HDPE – RAFFIA GRADES

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
E52009	0.9	RIL	Oriented tapes, woven sacks and monofilaments
HD T9	1.1	HPL	Stretched tape / raffia for woven fabrics & tarpaulin
R5504	0.4	OPAL	Fishing Nets, Insect Screens, Ropes, Cloth Yarns, Packing Straps, Woven Sacks for Fertilizer
012E50	1.2	IOCL	Tarpaulin, woven sacks, Monofilaments for mosquito nets, fishing nets & filter cloth
W50A009A	0.9	GAIL	woven sacks for packaging of fertilizer, food grain, sugar, salt and other Industrial products

1E. MAJOR APPLICATION AREAS OF HDPE

- Packaging (films, bags, liners)
- Containers & bottles (oils, chemicals, milk, detergents)
- Household products (buckets, tubs, bins, mugs)
- Crates, drums, pallets
- Pipes and fittings
- Ropes, twines, nets, woven sacks
- Tarpaulins and industrial fabrics
- Toys, furniture and recreational products

1F. ADVANTAGES OF HDPE

- High strength and stiffness
- Excellent chemical resistance
- Low cost and easy processing
- High impact resistance
- Good dimensional stability
- Food grade safety
- Recyclable – supports sustainability

1G. PRODUCERS (ABBREVIATION GUIDE)

RIL	– Reliance Industries Limited
HPL	– Haldia Petrochemicals Limited
OPAL	– Orissa Petrochemicals Limited
IOCL	– Indian Oil Corporation Limited
GAIL	– GAIL (India) Limited

Disclaimer: The information provided is based on data available at the time of publication and is intended for general guidance only. Users are advised to confirm suitability with producers.

ETHYLENE (LLDPE)

COMPLETE PRODUCT DETAILS

1. ETHYLENE – OVERVIEW

Ethylene (C₂H₄) is the simplest olefin and a fundamental petrochemical building block. It is a colorless, flammable gas with a slightly sweet odor. Ethylene is primarily produced by steam cracking of hydrocarbons such as naphtha or ethane and is the starting material for a wide range of polyethylene grades and other chemicals.

Chemical Formula	: C ₂ H ₄
Molecular Weight	: 28.05 g/mol
Appearance	: Colorless gas
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Melting Point	: -169.2 °C
Density (gas, 0 °C)	: 1.178 kg/m ³
Flammability Limits	: 2.7 – 36 vol% in air
Autoignition Temp	: ~450 °C

Key Uses of Ethylene

- Manufacture of polyethylene (HDPE, LLDPE, LDPE)
- Ethylene oxide and ethylene glycol
- Vinyl chloride (PVC)
- Ethanol
- Alpha olefins and many other derivatives

1A.LLDPE – FILM

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
F19010	0.9	RIL	Slip, anti-block grade for heavy duty film, liquid packaging
71601D	1	HPL	Manufacturing of agricultural drip lateral pipes and micro-irrigation systems
F2001S	0.9	OPAL	Co-extrusion films, Liquid Packaging films, Drip laterals, Agriculture Films
010F18S	0.9	IOCL	Liquid Packaging films, Heavy duty films, Multi layer films, Carrier bags, Drip laterals
F20S009A	0.9	GAIL	General purpose, heavy duty and liquid packaging in laminated/nonlaminated film applications

1B.LLDPE – INJECTION MOULDING

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
M26500	50	RIL	Producing injection moulded lids, containers, houseware & general purpose articles as it exhibits good flexibility, low warpage and good fluidity
M2525	25	OPAL	Housewares, Thin walled containers & Lids, Suitable for faster molding cycle, Masterbatch & Compounding
500M24A	50	IOCL	Master batches and to make molding of flat and large warpage-free products/lids
I56A200UA	20	GAIL	Household items like buckets, Mug, Toys,etc

1C.LLDPE – ROTO MOULDING

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
L36RA045	4.5	RIL	Overhead water tank, loft tank, litter bin etc
73204T	5	HPL	Tanks & Containers for domestic & industrial water storage, sanitation & agriculture
T3804	4	OPAL	Overhead water tanks, Loft tanks, Storage bins, Toys and traffic barriers, Sanitation & Agriculture products
042R35A	4.8	IOCL	Overhead water tanks & Loft tanks, Septic & Chemical storage tanks, Toys and Furniture
R35A042A	4.2	GAIL	Water storage tanks, chemical tanks, bins, automotive parts, playground equipment, material handling parts, toys, boats, vending machines etc

1D.LLDPE – EXTRUSION COATING

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
E24065	6.5	RIL	Extrusion coating on HDPE woven fabric, Jute, Al foil etc
72307E	7	HPL	HDPE Woven Fabric, Aluminium Foil, Jute, Paper & Allied Substrates
065E24A	6.5	IOCL	Extrusion coating on HDPE Raffia, Base resin for XLPE compounds, Heat& press lamination
E36A060	7	GAIL	Extrusion coating on aluminium foil, paper, jute etc

1E. MAJOR APPLICATION AREAS

- Packaging films (general, heavy-duty, stretch, shrink)
- Agriculture films and drip irrigation systems
- Pipes and conduit systems
- Injection moulded household and industrial products
- Rotational moulded tanks and containers
- Extrusion coating on woven fabrics, paper, foil, etc.
- Laminated and multi-layer packaging

1F. ADVANTAGES OF LLDPE

- High strength and toughness
- Excellent puncture and tear resistance
- Superior flexibility and durability
- Good clarity and appearance
- Excellent chemical resistance
- Low density with good stiffness balance
- Easy to process and seal
- Recyclable and sustainable

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Note: MFI (Melt Flow Index) is measured as per ASTM D1238 at 190 °C / 2.16 kg (or as specified by producers).

Applications mentioned are typical end uses and may vary based on processing conditions and customer requirements.

ETHYLENE (LDPE)

COMPLETE PRODUCT DETAILS

1. ETHYLENE – OVERVIEW

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Key Uses of Ethylene

- Manufacture of polyethylene (HDPE, LLDPE, LDPE)
- Ethylene oxide and ethylene glycol
- Vinyl chloride (PVC)
- Ethanol
- Alpha olefins and many other derivatives

1A. LDPE – GP (GEN. PURPOSE) FILM

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
24FS040	4	RIL	High slip grade for shopping bags, general purpose packaging. Non-Slip grade can be used for Lamination and bubble wrap applications

1B. LDPE – INJECTION MOULDING

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
16MA400	30	RIL	Master batches, powder coating & moldings

1C. LDPE – EXT. COATING

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
1070LA17	8.5	RIL	Extrusion coating, heat & pressure lamination film

1D. LDPE – HEAVY DUTY

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
22FA002	0.2	RIL	Heavy duty bags, Shrink film, Canal Lining, Greenhouse film

1E. LDPE – MILK POUCH

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
1005FY20	0.5	RIL	Medium slip grade for mono and co-extruded films for packaging

1F. MAJOR APPLICATION AREAS

- Packaging films (general purpose, heavy duty)
- Milk pouches and liquid packaging
- Lamination and extrusion coating
- Injection moulded products
- Agricultural films and greenhouse covers
- Shrink films
- Canal lining and geomembranes
- Household and industrial packaging

1G. ADVANTAGES OF LDPE

- Excellent flexibility and toughness
- Good chemical and moisture resistance
- High elongation at break
- Good transparency and softness
- Easy to process in multiple applications
- Cost effective material
- Recyclable and safe for food contact

1H. PRODUCER (ABBREVIATION GUIDE)

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POLYVINYL CHLORIDE (PVC) – COMPLETE PRODUCT DETAILS

1. PVC – OVERVIEW

Polyvinyl Chloride (PVC), a thermoplastic polymer of vinyl chloride monomer, is one of the most versatile plastics used in a wide range of applications. PVC can be formulated as rigid or flexible by adding appropriate additives. It offers excellent chemical resistance, good mechanical properties, flame retardancy and durability.

General Properties of PVC

- **Chemical Formula** : $(C_2H_3Cl)_n$
- **Density** : 1.38 – 1.45 g/cm³
- **K-value Range** : 50 – 80 (varies by grade)
- **Appearance** : White free flowing powder
- **Odor** : Odorless
- **Glass Transition Temp.** : ~80 °C
- **Vicat Softening Temp.** : 75 – 85 °C
- **Flame Behavior** : Self extinguishing
- **Chemical Resistance** : Excellent against acids, alkalis, salts and many chemicals
- **Electrical Insulation** : Excellent
- **Weathering Resistance** : Good
- **Recyclable** : Yes (100% recyclable)
- **Food Contact** : Available in food grade grades

2. PVC GRADE DETAILS

GRADE	K-value	PRODUCER	APPLICATION
K6701	67	RIL	Rigid pipes and conduits, Rigid blown film, Rigid profiles, sheets, Rigid calendered film
K5701	57	RIL	Fittings for PVC Pipe, Rigid Injection Molded Products, Calendering Sheet & Film
S1001	67	Kaneka (Japan)	To produce highly flexible, rigid, and semi-rigid plastic products
B 57	54.1~56.0	Formosa (Taiwan)	Rigid sheet, film, tiles and complex pipe fittings
S 65D	65.7~67.1	Formosa (Taiwan)	Extrusion process of rigid pipe with high extrusion quantity
SG 5	66~68	China	Rigid plate, gramophone record, valve & welding rod, PVC pipes, PVC windows and doors

3. MAJOR APPLICATION AREAS OF PVC

- Pipes and fittings (water supply, drainage, industrial)
- Window and door profiles
- Electrical conduits and cable insulation
- Sheets, films and calendered products
- Bottles, containers and packaging
- Flooring, wall coverings and tiles
- Medical and pharmaceutical products
- Credit cards and ID cards
- Automotive parts
- Toys and consumer goods
- Hoses, cables and tubing

POLYSTYRENE (PS) – COMPLETE PRODUCT DETAILS

1. PS – OVERVIEW

Polystyrene (PS) is a general-purpose thermoplastic polymer obtained by the polymerization of styrene monomer. It is available in two main forms: GPPS (General Purpose Polystyrene) which is transparent and rigid, and HIPS (High Impact Polystyrene) which is tougher and impact resistant.

General Properties of PS

- **Density** : 1.04 – 1.06 g/cm³
- **Appearance** : Transparent (GPPS), Opaque/Colored (HIPS)
- **Glass Transition Temp.** : ~100 °C
- **Good dimensional stability**
- **Excellent electrical insulation**
- **Easy to process (injection, extrusion, thermoforming)**
- **Recyclable and environment friendly**

3. MAJOR APPLICATION AREAS OF PS

- Consumer goods (cups, plates, cutlery)
- Packaging and disposable items
- Electrical and electronic parts
- Stationery and toys
- Automotive interior parts
- Refrigerator and appliance components
- Medical and laboratory ware

2. PS GRADE DETAILS

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
GPPS (SC 201 LV)	4	SPL	Refrigerator parts, toothbrush items, stationery products, pen barrels & medical containers/dishes
GPPS (SC 203 EL)	8	SPL	Stationery & medical products, crystal wares, mugs, bowls, trays, thin wall cups & glossy HIPS sheet applications
GPPS (SC 206)	12	SPL	Medical devices, beads & bangles, gift articles, crystal ware & houseware products
HIPS (SH 300)	8	SPL	Electrical appliance parts, household & sanitary products, toys, computer accessories & compounding applications
HIPS (SH 450)	8	SPL	AC & cooler grills, toys, household articles, stationery items, washing machine & appliance parts
HIPS (SH 731E)	4	SPL	Thermoformed packaging, disposable cups & containers, general purpose sheets and extruded profiles

ETHYLENE VINYL ACETATE (EVA) – COMPLETE PRODUCT DETAILS

1. EVA – OVERVIEW

Ethylene Vinyl Acetate (EVA) is a copolymer of ethylene and vinyl acetate. The vinyl acetate content significantly influences its properties. EVA is widely used in foams, adhesives, coatings, and various molding and extrusion applications.

General Properties of EVA

- **Density** : 0.93 – 0.97 g/cm³
- **Shore Hardness** : 20 – 90 (varies by grade)
- **Melting Point** : 60 – 90 °C (varies by VA content)
- **Excellent flexibility and toughness**
- **Good clarity and transparency**
- **Good adhesion and sealing properties**
- **Weather and UV resistance**
- **Recyclable and non-toxic (food contact grades available)**

2. EVA GRADE DETAILS

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
2518 (18%)	2.5	Sipchem	Foams, Shoe Soles, Injection Moulding, Profile Extrusion and Compounds
LVS 430 (18%)	2	Lotte Chemical	Foam, Shoe soles, Injection/Sheet molding
Formosa 7350M (18%)	2.5	Formosa	Gasket etc Cross linked Foam Shoes Shoe soles
EA28025 (28%)	25	LG Chem	Hot Melt Adhesive
VAB00 (28%)	20	Lotte Chemical	Hot melt adhesives

3. MAJOR APPLICATION AREAS OF EVA

- Footwear (foams, soles, insoles)
- Hot melt adhesives
- Foam sheets and rolls
- Solar encapsulant films
- Wire & cable insulation
- Packaging films
- Sealants and gaskets
- Sports and leisure products

4. COMPARISON – PVC vs PS vs EVA

PROPERTY	PVC	PS	EVA
Density (g/cm ³)	1.38 – 1.45	1.04 – 1.06	0.93 – 0.97
Flexibility	Rigid to Flexible	Rigid (GPPS) Tough (HIPS)	Flexible
Chemical Resistance	Excellent	Good	Good
Heat Resistance	Good	Moderate	Good
Impact Strength	Good	Moderate to High	High
Primary Applications	Pipes, Profiles, Sheets, Films	Packaging, Electrical, Household Items	Foams, Adhesives, Shoe Soles

5. ADVANTAGES

- PVC**
- Excellent chemical resistance
 - Self extinguishing
 - Durable and long lasting
 - Wide range of applications
- PS**
- Good clarity and gloss
 - Easy to process
 - Lightweight and economical
 - Available in transparent & colored forms
- EVA**
- Excellent flexibility and softness
 - Good adhesion and sealing properties
 - Suitable for foaming and extrusion
 - Wide range of hardness and VA content

6. PRODUCER (ABBREVIATION GUIDE)

- RIL – Reliance Industries Limited
- SPL – Styrolution Performance Limited
- Kaneka – Kaneka Corporation (Japan)
- Formosa – Formosa Plastics Corporation (Taiwan)
- China – Various Chinese Manufacturers
- Sipchem – Saudi International Petrochemical Company
- Lotte Chemical – Lotte Chemical Corporation (Korea)
- LG Chem – LG Chem Ltd. (Korea)

Note: MFI (Melt Flow Index) is measured as per ASTM D1238 at 190 °C / 2.16 kg (or as specified by producers).

K-value is measured as per ASTM D1243. Applications mentioned are typical end uses and may vary based on processing conditions and customer requirements.

ENGINEERING & THERMOPLASTIC RESIN – COMPLETE PRODUCT DETAILS

1. ACRYLONITRILE BUTADIENE STYRENE (ABS)

ABS is a tough, rigid thermoplastic with high impact strength, excellent surface finish and good dimensional stability. It is widely used in household appliances, automotive, electronics and general injection molded products.

Key Properties of ABS

- High impact strength & toughness
- Good rigidity and stiffness
- Excellent surface gloss and appearance
- Good dimensional stability
- Easy to process in injection molding
- Can be plated, painted & welded
- Good electrical insulation
- Recyclable

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
HI121H	23	LG CHEM	Electric/electronic products, miscellaneous goods
IM17A (Jet Black)	43	BEPL	Home Appliances
MIF45	43	BEPL	General Moulded product
TR558A	25	LG CHEM	Washing Machine, Refrigerator, Electrical/Electronic Products, Miscellaneous Goods
Absolac 920 (Natural)	25	Styrenix	Stationary & Novelty, Toys, Office Equipment
Absolac 200Ep (Natural)	20	Styrenix	Automotive plating parts, Stationary fittings, Novelty
Absolac 300 (Natural)	35	Styrenix	Air conditioner parts, Refrigerator parts, Washing M
SHF50 (Black)	53	BEPL	Very High Flow Miscellaneous
Absolac 700 (Jet Black)	>25	Styrenix	Stationery goods, Pens, Toys, Novelty Items, Washing Machines
SPB131	22	SPL	Toys, Home and Office appliances, Electrical and Electronics housing, Automotive Components
Taitalac 5000W	19	Taita (Taiwan)	Office equipment, House-ware, White home appliance, White coloring compounding
GA850	20	Polimaxx (Thailand)	Appliance & Electronic Parts, Housewares, Sanitary Ware, Toy
RS670	4.5	LG CHEM	Refrigerator Inner Liner

2. STYRENE ACRYLONITRILE RESIN (SAN)

SAN is an amorphous copolymer of styrene and acrylonitrile. It offers excellent transparency, gloss, stiffness and heat resistance. SAN is widely used in transparent containers, household items, stationery and electrical parts.

Key Properties of SAN

- High transparency and clarity
- Good surface gloss
- Excellent stiffness and hardness
- Good heat resistance
- Good dimensional stability
- Good electrical properties
- Easy to process and color
- Recyclable

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
310CTR (Clear)	10 (230°C)	Kumho (Korea)	Cosmetic container, Mixer, Transparent container
AS 2300 (Clear)	>30 (220°C)	Styrenix	Ball Pens, Household Application, Stationary & Novelty
AS 888 (Clear)	28 (220°C)	Denka (Japan)	Electrical, automotive, household & industrial molded products
121PC (Clear)	2.8 (200°C)	Polimaxx (Thailand)	Household products (sanitary ware), electrical appliances (electric fan), cosmetic packaging, and automotive parts (lamp)
Taitalac 1200 (Clear)	30 (220°C)	Taita (Taiwan)	Glass fiber compounding, Alloy compounding

3. POLYETHYLENE TEREPHTHALATE (PET)

PET is a strong, transparent thermoplastic polyester with excellent barrier properties. It is widely used in bottles, food packaging, sheets, films and industrial applications.

Key Properties of PET

- High clarity and gloss
- Excellent strength and toughness
- Excellent barrier to gases and moisture
- Good chemical resistance
- Good dimensional stability
- Recyclable and food contact safe

GRADE	IV (dl/g)	PRODUCER	APPLICATION
G5801	0.80 ± 0.02	RIL	Food & beverage containers, FMCG & pharma packaging, APET sheets & PET strapping.
WK801	0.80 ± 0.02	Wankai (China)	Bottle like drinking water & food container
0.80 IV	0.80 ± 0.02	Billion (China)	Drinking water packing bottles and sauce bottles, candy bottles, PET chips, etc.
CP-B80	0.80 ± 0.02	Chiripal	Edible oil, liquor, beer, medical, and APET
0.80 IV	0.80 ± 0.03	UFlex	Bottles, sheets, food packaging & thermoforming products

4. POLYCARBONATE (PC)

PC is an engineering thermoplastic known for its excellent impact strength, optical clarity and high heat resistance. It is used in demanding applications requiring toughness and transparency.

Key Properties of PC

- High impact strength
- Excellent optical clarity
- High heat deflection temperature
- Good dimensional stability
- Good electrical insulation
- Flame retardant grades available
- Recyclable

GRADE	MFR (g/10min)	PRODUCER	APPLICATION
2407	20	Makrolon(Bayer)	Transparent containers, disposable cups, trays & thermoformed packaging
SC-1220UR	22	Lotte Chemical	Household products, stationery items, appliance parts & general molding applications
SC-1060U	6	Lotte Chemical	Household products, appliance parts, toys & general injection molding items
PC 1003R	10	Sabic	Electrical parts, transparent housings, automotive components & industrial molding products

5. POLYBUTYLENE TEREPHTHALATE (PBT)

PBT is a high-performance engineering thermoplastic with excellent electrical properties, dimensional stability and chemical resistance. It is widely used in electrical and automotive applications.

Key Properties of PBT

- High mechanical strength & stiffness
- Excellent dimensional stability
- Good electrical insulation
- High heat resistance
- Good chemical resistance
- Low moisture absorption

GRADE	MFI (g/10min)	PRODUCER	APPLICATION
1.1 IV	30~45	Imported	Brushes, masterbatches, sheets/films, optical cables, and applications in electronics, automobiles, lighting & appliances.
1.3 IV	55~65	Imported	Electrical, automotive & engineering molded parts

6. POLYOXYMETHYLENE (POM)

POM (Acetal) is a high-performance engineering thermoplastic with excellent wear resistance, low friction and high dimensional stability. It is ideal for precision parts and mechanical components.

Key Properties of POM

- High stiffness and hardness
- Excellent wear and fatigue resistance
- Low friction and good sliding properties
- High dimensional stability
- Good chemical resistance

GRADE	MFR (g/10min)	PRODUCER	APPLICATION
FM 090	9	Formosa	Buttons, fasteners, gears, electronic, automotive & appliance parts
F30-03	27	Mitsubishi	Gears, automotive parts, electrical components, appliance parts & precision molded products
M 90	8	Celanese	Extrusion of thin walled tubing and thinguage film
M270-44	27	Polyplastics	Gears, bearings, automotive, electrical & precision molded parts

Note: MFI (Melt Flow Index) is measured as per ASTM D1238 at 190 °C / 2.16 kg (or as specified by producers). Applications mentioned are typical end uses and may vary based on processing conditions and customer requirements.

ENGINEERING & SPECIALTY POLYMERS – COMPLETE PRODUCT DETAILS

1. POLY URETHANE (PU)

Poly Urethane (PU) is a versatile polymer known for its excellent elasticity, abrasion resistance, tear strength, and ability to withstand oils, greases, and solvents. PU is used in a wide range of applications including industrial, automotive, footwear, seals, gaskets, hoses, wheels, and consumer goods.

Key Properties of PU

- High abrasion resistance
- Excellent flexibility and elasticity
- High tear and tensile strength
- Good resistance to oils, solvents and chemicals
- Wide hardness range (Shore A)
- Excellent load bearing capacity
- Good weather and aging resistance

GRADE	PRODUCER
TPU - 85A	Imported
TPU - 90A	Imported
TPU - 92A	Imported
TPU - 95A	Imported

Applications

Wheels, rollers, seals, gaskets, belts, hoses, sports equipment, footwear soles, smartphone covers, industrial components, and automotive parts.

2. POLYMETHYL METHACRYLATE (PMMA)

PMMA (Acrylic) is a transparent thermoplastic with exceptional optical clarity, high surface gloss, and weather resistance. It offers excellent dimensional stability and is widely used as a glass substitute.

Key Properties of PMMA

- High transparency (up to 92% light transmission)
- Excellent weather and UV resistance
- High surface hardness and scratch resistance
- Good chemical resistance
- Easy to fabricate and thermoform
- Good electrical insulation

GRADE	PRODUCER
IH 830A	LG CHEM
IG 840	LG CHEM
20HR	Sabic
VH 001	Mitsubishi
R2009UM	Aramco

Applications

LED light covers, signages, display sheets, lighting fixtures, aquariums, automotive lenses, sanitary ware, decorative sheets, and optical components.

3. NYLON 6 (PA6)

Nylon 6 (Polyamide 6) is a versatile engineering thermoplastic known for its toughness, wear resistance, low friction, and excellent chemical resistance.

Key Properties of Nylon 6

- High mechanical strength and toughness
- Excellent abrasion and wear resistance
- Low coefficient of friction
- Good chemical and oil resistance
- Good electrical insulation
- Good processability and dimensional stability

GRADE		PRODUCER
E 35 (Extrusion)	-	GSFC
M 28RC	-	GSFC
Unfilled Black NX-02 BK	-	Celanese
Unfilled Natural NXMI-01 NC	-	Celanese
Unfilled K 222 - K MV5 (Grey)	-	DSM India
GF 30% K 222 - KGV6 (Grey)	-	DSM India

Applications

Automotive parts, electrical components, gears, bearings, bushings, cable ties, textile machinery parts, industrial components, and consumer goods.

4. NYLON 66 (PA66)

Nylon 66 (Polyamide 66) offers higher mechanical strength, stiffness, and heat resistance compared to Nylon 6.

Key Properties of Nylon 66

- High strength and stiffness
- Excellent heat resistance
- High abrasion and wear resistance
- Good chemical and oil resistance
- Low friction
- Dimensional stability

GRADE		PRODUCER
70G30HSL BK039B (GF30%)	-	Dupont
70G33L NC010 (GF33%)	-	Dupont
GF30%	-	Calco
GF33%	-	Calco

Applications

Automotive under-hood parts, electrical connectors, industrial gears, housings, brackets, fasteners, appliance components, and engineering applications.

Note: MFI (Melt Flow Index) and other values are measured as per ASTM D1238 at 190 °C / 2.16 kg (or as specified by producers). Applications mentioned are typical end uses and may vary based on processing conditions and customer requirements.



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1 FULL INFORMATION ON ALL PRODUCTS & GRADES

INFORMATION INCLUDES:

We provide complete technical and commercial details for various petrochemical, polymer, and chemical products.

- HDPE
- LDPE
- LLDPE
- PP (Polypropylene)
- PVC
- PET
- EVA
- ABS
- PS
- Engineering Plastics
- Masterbatches
- Specialty Chemicals
- Solvents & Industrial Chemicals



Grade Specifications



Melt Flow Index (MFI)



Density & Properties



Processing Applications



Injection / Film / Raffia / Blow / Pipe Grades



Manufacturer Details



Packing Information



End-Use Industries



Technical Data Sheet (TDS) References



Alternative Grades & Substitutes

2 MARKET INFORMATION & MATERIAL AVAILABILITY UPDATES

Daily updates on:

- Ready stock availability
- Ex-stock offers
- Import material positions
- Domestic supply status
- Regional availability
- Warehouse movements
- Trader & distributor activity
- Shortage and surplus alerts



COVERAGE AREAS:

- Delhi NCR
- Mumbai
- Ahmedabad
- Indore
- Chennai
- Hyderabad
- Kolkata
- Ludhiana
- Jaipur
- Surat
- Pan India polymer markets

3 DAILY POLYMER & CHEMICAL MARKET COVERAGE ACROSS INDIA

INDUSTRIES COVERED:

Comprehensive daily market reports covering:

- Polymer market movements
- Chemical price fluctuations
- Refinery updates
- Import-export trends
- Market sentiments
- Bulk deal activities
- Distributor and trader quotations
- Industry demand trends



Plastic Processing



Packaging



Automotive



Pipe Industry



Household Products



Pharma Packaging



Electrical & Electronics



Agriculture Film



Blow Molding Industry

4 PRICE TRENDS, PLANT UPDATES & SUPPLY-DEMAND MOVEMENTS

DAILY PRICE TRENDS:

- HDPE price movement
- PP raffia trend
- PVC suspension market
- PE film market
- ABS & Engineering plastic prices
- International crude impact



PLANT & PRODUCTION UPDATES:

- Plant shutdowns
- Maintenance schedules
- Force majeure updates
- Production cut information
- Capacity expansion news
- Import shipment updates



SUPPLY-DEMAND INSIGHTS:

- Market demand analysis
- Seasonal consumption trends
- Converter buying patterns
- Inventory pressure analysis
- Distributor stock positions



5 MANUFACTURER-WISE & GRADE-WISE MARKET INSIGHTS

INSIGHTS INCLUDE:

INDIAN PRODUCERS

- Reliance Industries Limited
- Indian Oil Corporation
- Haldia Petrochemicals
- GAIL
- OPaL (ONGC Petro additions Limited)
- HMEI (HPCL-Mittal Energy Limited)



INTERNATIONAL PRODUCERS

- SABIC
- LG Chem
- ExxonMobil
- Lotte Chemical
- Borouge



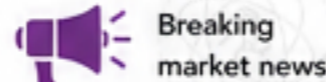
- Manufacturer-wise pricing
- Grade positioning
- Demand strength
- Regional movement
- Import competition
- Grade substitution opportunities
- Premium vs economy material comparison

6 UPDATES THROUGH EMAIL, WHATSAPP & TELEGRAM

DAILY COMMUNICATION CHANNELS:

- Email market reports
- WhatsApp instant alerts
- Telegram channel updates

- PDF circulars
- Daily price sheets
- Plant shutdown notifications



BENEFITS:

- Faster business decisions
- Better purchase planning
- Early market trend identification
- Competitive pricing advantage
- Real-time industry intelligence

WHY BUSINESSES CHOOSE MARKET INTELLIGENCE SERVICES

- Accurate daily market tracking
- Pan India polymer coverage
- Reliable price information
- Real-time updates
- Technical + commercial insights
- Strong trader & distributor network
- Manufacturer-focused reporting
- Customized industry reports



SUITABLE FOR:

- Polymer traders
- Plastic manufacturers
- Packaging companies
- Chemical distributors
- Importers & exporters
- Injection molding units
- Blow molding industries
- Pipe manufacturers
- Masterbatch companies
- Procurement teams