

Polyethylenes

Extrusion- PIPE (Basell license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
AM 5010 T2 N (EX3)	0.45	0.945	PE-80 Pressure pipe, e.g. drinking water and gas pipes, waste pipes and sewer pipes, their fittings and also sheets (natural grade).
AM 5010 T2 B (EX3B)	0.45	0.954	PE-80 Pressure pipes, e.g. drinking water and gas pipes, waste pipes and sewer pipes, their fittings and also sheets (black grade)
AM 5010 T3 N	0.43	0.944	High quality PE-80 pressure pipe for gas and water transportation (natural grade).
AM 5010 T3 B	0.43	0.954	High quality PE-80 pressure pipe for gas and water transportation (black grade).
AM CRP 100 N (PE - 100 W)	0.22	0.948	Top quality PE-100 pressure pipes for gas and water transportation at higher pressures or with thinner walls as PE-80(natural grade).
AM CRP 100 B PE - 100 B	0.22	0.957	Leading PE-100 for pressure pipes for all purposes for gas, water and sewage transportation (black grade).
AM CRP 100 Blue (PE - 100 Blue)	0.22	0.948	Leading PE-100, specially for drinking water (blue marker)

Extrusion - Stretched Film and tape (Basell license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
AF 7740 F (EX 1)	1.6	0.944	Stretched films and tapes for production of high quality knitted and woven.
AF 7740 F2 (EX1 S)	1.8	0.944	Tapes to be used for agricultural packaging and as protective cover.

Polyethylenes

Extrusion - Tubular film (Basell license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
AM 9450 F (EX5)	0.28	0.949	For blown films with paper like quality, suitable for counter bags, carrier bags and wrapping films, excellent processing.
AM 9450 F1 (EX5 HS)	0.24	0.95	For blown films with paper like quality, suitable for counter bags, carrier bags and wrapping films, excellent processing and sealability.
AM 9455 F (EX4)	0.28	0.956	For blown films with paper like quality, suitable for counter bags, carrier bags and wrapping films, excellent processing stiffer than HM 9450 F.
AM 9455 F1 (EX4 HS)	0.24	0.957	For blown films with paper like quality, suitable for counter bags, carrier bags and wrapping films, excellent processing, stiffer than HM9450 F1.
AM 9445 HT (EX6 HT)	0.18	0.944	For blown films with paper like quality, suitable for counter bags, carrier bags and wrapping film, excellent processing with high tenacity.

Extrusion - Filment (Basell license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
AF 7750 M2 (EX2 S)	3.3	0.956	Monofilament for fishing notes, geo textiles and civil engineering.

Extrusion - Filment (Innovene license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
HD 5710 AA	0.9	0.957	Ropes, nets, knitted sacks, woven fabrics.

Extrusion - Cable Insulation (Basell license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
AF 7450 K (EX 7C)	3.5	0.946	Wire and cable insulation

Polyethylenes

HDPE-Injection Molding (Basell license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
AA 7260 (I1)	52	0.957	Light weight household and disposable articles
AB 6450 (I2)	28	0.95	Household articles less hard and less rigid than I1
AC 7260 (I3)	23	0.957	Transport and stacking crates, particular bottle crates
AD 7255 (I4)	11	0.954	Tick walled, highly stressed transport containers, e.g. refuse bin and fish crates, screw caps and cable clips.

HDPE-Injection Molding (Innovene license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
HD 5120 EA	2.3	0.95	Heavy duty and High ESCR application.
HD 5740 UA	4	0.955	UV resistance for thick components such as large refuse bins and pallets, boxes and dust bins.
HD 5050 EA	4.5	0.95	Heavy duty, High ESCR applications such as screw stopper. Caps & closures.
HD 5050 UA	4.5	0.95	Large dust bins & pails. Pallet boxes. Products with high ESCR and UV resistance.
HD 6070 EA	7	0.958	General purpose grade for rigid items such as fish boxes, Crates and tote boxes.
HD 6070 UA	7	0.958	UV stabilized for rigid items such as fish boxes, Crates and toys.
HD 5211 EA	11	0.949	Thin component, such as houseware and toys
HD 5211 UA	11	0.949	UV stabilized for thin component, such as houseware and toys
HD 5813 EA	13	0.954	Components requiring high rigidity, houseware and crates.
HD 5813 UA	13	0.954	UV stabilized for components requiring high rigidity, houseware and crates.
HD 5218 EA	18	0.952	Thin components such as food container, houseware and toys.
HD 5620 EA	20	0.956	General purpose.
HD 5226 EA	26	0.953	Thin wall injection application, housewares, caps and closures.
HD 5150 EA	55	0.958	High flow applications, Houseware, Food packaging

Linear Low Density Polyethylenes (LLDPE)

C4 - LLDPE-Blown Film (Innovene license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
LL 0205 AF	0.5	0.92	Produce bag, medium duty sacks, refuse sacks, agricultural film.
LL 0205 HF	0.5	0.92	Liner bag, medium duty sacks, refuse sacks, agricultural film.
LL 0209 AF	0.9	0.92	Sealing layer, lamination, carrier and industrial bags.
LL 0209 AA	0.9	0.92	Liner bags, builders reel, Co-extrusion, shrink silage, green house and mulch film.
LL 0209 KJ	0.9	0.92	Liner bags, deep freeze film, garment wrap, refuse and heavy duty sacks.
LL 1209 AA	0.9	0.92	Lamination film.
LL 1209 KJ	0.9	0.92	Lamination film, display packaging, co-extrusion
LL 0410 AA	1	0.925	Thin film, shrink film. Blending component with PP.
LL 0410 KJ	1	0.925	Thin film, carrier bags, garment wrap.

C6 - LLDPE-Blown Film (Innovene license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
LL 6206 AF	0.6	0.92	Heavy duty sacks, agricultural film, mulch film
LL 6206 LJ	0.6	0.921	Mulch film, mailing film
LL 6209 KJ	0.9	0.921	carrier bags, mailing film, refuse bag
LL 6409 AA	0.9	0.924	Lamination, sealing layers in co-extrusion
LL 6409 KJ	0.9	0.925	Lamination, sealing layers in co-extrusion

Linear Low Density Polyethylenes (LLDPE)

C4 - LLDPE-Cast Film (Innovene license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
LL 0220 AA	2.2	0.92	Stretch wrap, Oriented Tape. Base resin for power cable compound insulation (low voltage), fiber optic jacketing.
LL 0640 AA	4	0.93	High quality cast films for display packaging, noncling layer for stretch film. Base resin for power cable compound insulation (low voltage), fiber optic jacketing.
LL 0640 KJ	4	0.929	High quality cast films such as display packaging, noncling layer for stretch film.

C4-MDPE- Rotational Molding (Innovene license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
HD 3840 UA	4	0.938	Tanks, containers and silos up to 30000 liters, technical parts, agricultural application.
HD 2840 UA	4	0.928	Tanks, containers and silos up to 30000 liters, technical parts, agricultural application.
HD 3560 UA	6	0.935	Tanks, containers and silos up to 30000 liters, technical parts, agricultural application.

LLDPE-Injection Molding (Innovene license)

Grade Name	MFR(gr/10min) (5kg,1900C)	Density	Application
BD 24250 AA	25	0.926	Housewares, boxes and closures.
BD 30500 AA	50	0.93	Housewares, boxes and closures.

Polypropylene-Homopolymer

PP Homopolymer Fiber

Grade Name	MFR(gr/10min) (5kg,190OC)	Properties	Application
F20S	11	Medium gas – fading resistance.	BCF and CF multifilament, medium- low denier staple yarn, trilobe sections
F39S	12	General purpose with high gas – fading resistance.	Wool staple fiber, heavy denier CF multifilament.
HP54N	12	Outstanding spin ability, superior thermo-bonded properties & excellent anti-gas fading properties	Fine denier staple fibers for nonwoven, thermo-bonded fabrics. Feminine care products, medical disposables and filters.
HP500N	12	Good processability & constant, high flow during extrusion.	Wool staple fiber, heavy denier CF, multifilament for ropes, belts & straps and decorative ribbons.
V30S	18	Good flow, medium MWD.	Fine denier staple fibers, thermo-bonded non-woven fabrics, upholstery and hygiene, Diapers, incontinence pads, feminine care.
HP54P	18	Good flow, Medium MWD, Anti gas fading	Fine denier staple fibers, thermo-bonded non-woven fabrics, upholstery and hygiene, Diapers, incontinence pads, feminine care.
HP52R	25	High flow, medium MWD. High stretch ratio and gives tough and resilient fibers and Anti gas fading.	Short & long spinning, low denier staple fiber, BCF and CF multifilament, low denier staple fibers for non-woven fabrics, medical-sanitary applications and wipes, carpet face yarns, backpacks, big bag handles and safety belts.
H30S	35	High flow, medium MWD.	Fine denier cotton staple fiber, high speed short spinning operations. Coating of woven PP film yarn fabrics and paper coating. Injection molding for household articles, toys and packaging.

Polypropylene-Homopolymer

PP Homopolymer-Injection Molding

Grade Name	MFR(gr/10min) (5kg,190OC)	Properties	Application
D50G	0.3	Excellent long – term heat ageing resistance, high mechanical properties.	Injection molding of wheels, fittings and high performance items are other application.
Q30G	0.7	Particular molding purpose.	Technical items such as cops & clothes- pins
HP502H	1.8	High stiffness and good impact strength, excellent processability.	Appliance components, textile bobbins, wheels, fitting, closures, caps.
HP500J	3.2	High stiffness & fairly good impact strength with good processability.	Technical items such as parts for small appliances & automotive industry. House wares, caps, closures, small containers, toys. It is also used for compounding
HP500L	6	Easy processing & high stiffness.	Household articles, small containers, crates, garden furniture, stadium seats, toys, caps, closures. Components for appliances & automotive industry.
HP500M	8	Easy processing & high stiffness.	Household articles, food containers, crates, garden furniture, toys, caps, closures. Components for appliances & automotive industry.
HP502N	12	Good flow, good dimensional stability & high stiffness.	Consumer goods such as food containers, vacuum flasks, flower pots, garden furniture & small appliances. in the medical sector It can be used for 3-part syringes & a wide range of health care items.
HP500P	16	Good flow & easy mold filling & short cycle times and high stiffness.	Thin-walled articles with long flow path such as containers, boxes, caps, closures. Polymer base for compounding & master batches.
Z11G	25	Suitable for medical gamma rays sterilization.	Syringes and hospital articles
HP300R	26	Very good processability and high stiffness.	Thin-walled containers & general purpose packaging items, vacuum flasks, kitchen articles. Compounding & master batches.
HP648S	35	High melt flow homo-polymer with a narrow molecular weight distribution and optimum antistatic properties.	Thin-walled items such as video cassette boxes & small appliances.

Polypropylene-Homopolymer

PP-Homopolymer-Extrusion Thermoforming & Blow Molding

Grade Name	MFR(gr/10min) (5kg,190C)	Properties	Application
D60P	0.3	Excellent long- term heat ageing and detergents resistance. High mechanical properties	Pressure pipes, extruded and cast sheet.
HP501D	0.7	Excellent processability with an outstanding mechanical properties balance.	Technical extrusion for strapping, sheet, profiles, nets and small diameter pipes such as refills for ball pens. Blow molding small and medium sized containers.
S60D	1.8	Excellent long- term heat stability with detergent resistance.	Extruded sheet, blow molded technical items (such as tanks).
HP500H	1.8	Excellent process ability with high stiffness.	Thermoforming such as drinking beakers, packaging for dairy products, nursery flower pots& trays for fruits, biscuits & chocolates. Film yarn, both with cast and tubular process, mono filaments, Strapping, extruded nets, blow molded small containers.
HP640H	2	Very high stiffness, excellent contact clarity, high gloss and good antistatic & excellent organoleptic properties.	Hot fill applications and thermoforming vending cups, blister packs, pots for dairy products and trays for biscuits, chocolates, and fruits.
T31SE	3.2	High stiffness, excellent processability, good contact clarity and high gloss.	Sheet for thermoforming. Vending cups, packaging for dairy products, trays for biscuits, chocolates and fruits. Co-extruded multilayer sheet with high barrier properties to produce retort containers.

Polypropylene-Homopolymer

PP-Homopolymer-Film Yarn and Monofilament

Grade Name	MFR(gr/10min) (5kg,1900C)	Properties	Application
S30SW	1.8	Excellent processability with high stiffness, low water carry-over	Textile Film yarn, ropes, extruded nets.
S33LS	1.8	High mechanical properties and medium UV resistance.	Textile Film yarn, ropes, twins for agricultural use.
HP550J	3.2	Outstanding processability with good mechanical properties.	Film yarn, both with cast & tubular processes for the production of carpet backings, bags, industrial fabrics, mats & artificial grass, baler twines, packaging twines & ropes. Monofilament used for instance for brush & broom filling. Extrusion of nets for various purposes. Stiff sheet for high quality thermoforming such as vending cups, packaging for dairy products & trays for fruit, biscuits & chocolates.
HP510L	6	Outstanding processability with good mechanical properties.	Film yarn cast process for baler twines, packaging twines and ropes. Monofilament used in brush and broom filling and technical applications. Monolayer or co-extruded film for packaging. Thin sheet for stationary folders and sheets for thermoforming and extrusion of straws.

PP Homopolymer-Spun Bond

Grade Name	MFR(gr/10min) (5kg,1900C)	Properties	Application
HP562R	25	Spun-bond grade with very narrow MWD and very high speed production.	Low denier CF for spun bonding, non-woven fabrics, diapers, medical and sanitary tissues.
HOXP2004	35	High fluidity spun-bond grade with very narrow MWD and anti-gas fading performance.	Low denier CF for spun bonding, non-woven fabrics, diapers, medical and sanitary tissues. High output and high tenacity fibers.
HP565S	38	Very high flow spun bond grade with narrow MWD.	Fine denier non-woven such as Non-woven fabrics for industrial and medical applications. Backing and lining for furniture and carpet industries.

Polypropylene-Homopolymer

PP-Homopolymer-Bioriented Film

Grade Name	MFR(gr/10min) (5kg,190OC)	Properties	Application
S28F	1.8	Excellent processability and low water carry-over. High gloss & transparency. Good optical properties.	Film for packaging, special grade for metallization. Monolayer and co extruded film. Also suitable for lamination to other flexible films.
S38F	1.8	High transparency and gloss. Very stable extrusion. Good mechanical properties.	Monolayer films are used for food packaging, textiles packaging and flower wrappings, double bubble lines, adhesive tapes. BOPP films are used for lamination to other flexible films.
S38FT	1.8	Excellent processability on tubular lines.	Adhesive tapes. Packaging in general.
T36F	2.5	Excellent processability on cast lines, high transparency and gloss.	Monolayer films are used for food packaging, textiles packaging and also for medical application.

PP-Random Copolymer-Injection Molding

Grade Name	MFR(gr/10min) (5kg,190OC)	Properties	Application
EP2X83CI	10	Excellent clarity and gloss.	Transparent house wares, food storage containers and packaging cosmetics and lids, caps and closures.
EP2YX29GA	10	Excellent flow and antistatic properties with very high transparency and gloss.	Containers and thin-walled packaging with high clarity for food, cosmetics and pharmaceutical products. It also can replace PS whilst adding low weight, low odor transfer, chemical resistance and impact strength.
RP34OR	25	High melt flow and outstanding transparency and gloss.	Packaging for food and cosmetics, pharmaceutical products. Injection molded items for the medical sector such as syringes, test tubes and vials. Suitable for injection stretch blow molded containers and bottles.

Polypropylene-Homopolymer

PP Homopolymer-Cast Film

Grade Name	MFR(gr/10min) (5kg,190OC)	Properties	Application
X30S	9	Good processability in cast process.	Single layer and coextruded film for food packaging, textile wrapping, stationary and editorial application.

PP-Random Copolymer-Cast and Blown Film

Grade Name	MFR(gr/10min) (5kg,190OC)	Properties	Application
RP210M	6	Good processability, excellent clarity and gloss and very good heat weld ability.	Lamination to PP-film or other materials such as PA, polyester or aluminum. Packaging of foodstuffs and books, stationery, shirts and hosiery.
RP310M	8	Excellent processability, high clarity and gloss and good heat weld. Without slip or antiblock agents.	Lamination to BOPP film or other materials. Packaging of foodstuffs and books, stationery, shirts and hosiery. Injection molding caps and closures
RP316M	8	Formulated with slip and antiblock and exhibits excellent antistatic. Excellent process ability, high clarity and gloss and good heat weld ability.	Quality packaging as monolayer film or as welding layer on co-extruded structures. Lamination to BOPP film or other materials. Packaging of foodstuffs, books, stationery, shirts and hosiery.

Polypropylene-Homopolymer

PP-Random Copolymer-Bioriented Film

Grade Name	MFR(gr/10min) (5kg,190OC)	Properties	Application
EP2S34F	1.8	Excellent processability on tubular lines, slip agent modified	Packaging of bread and other foodstuffs with heat-shrinkable film
RP129K	5	Low sealing temperature and, slip agent modified. Very high transparency, excellent gloss and outstanding heat weld ability.	Suited for metallized BOPP films include packaging for foodstuffs and confectionary and medical applications drinks labels and liquor cartons.
EP3X37F	8	Low sealing temperature, slip and anti-blocking modified with very high transparency, excellent gloss and outstanding heat weld ability and show good hot tack.	Quality packaging for food, stationery, cosmetics, clothes and cigarettes. Suitable for the production of shrinkable co-extruded BOPP film for display packaging of foodstuff products.

PP-High Impact Copolymer-Extrusion

Grade Name	MFR(gr/10min) (5kg,190OC)	Properties	Application
EPD60R	0.35	Superior toughness even at low temperatures. Very high impact strength, extra heat stability and detergent resistance.	Blow molding for appliance components, wheels, under the hood automotive parts, toolboxes, suitcases and large containers. Profiles, sewage pipes and tough sheet for industrial applications. Thermoforming trays for cold storage.
EP310D	0.8	Smooth process ability and high mechanical properties. Good stiffness and very high impact strength, even at -20°C.	Film for adhesive tapes and lamination to paper and other resins. Extrusion blow molded containers for detergents, toiletries and foodstuffs. Corrugated board, smooth and corrugated pipe and sheet for thermoforming. Injection molding items with very good mechanical properties balance.
EPYS30RE	1.3	Smooth process ability, good stiffness and outstanding impact resistance, even at -20°C.	Corrugated board and sheet for thermoforming. Blow molded bottles and containers for detergents and foodstuffs and technical parts for the automotive and appliance industries.

Polypropylene-Homopolymer

PP-Random Copolymer-Extrusion

Grade Name	MFR(gr/10min) (5kg,1900C)	Properties	Application
ARP230	0.2	High heat and extremely high extraction stability.	Sanitary pipes for cold & hot water, industrial and chemical pipes. Other applications are pipe fittings and profiles.
EP2X83CE	1.8	Excellent clarity and gloss.	Bottle for detergents and toiletries, flat mineral water, jars for condiments and preserves.
RP210G	1.8	High cracking and chemical resistance.	Film for packaging & sheet for stationery folders and displays. Extrusion blow molding of high gloss monolayer bottles, packaging of cosmetics, detergents, chemicals and food-stuffs.
RP240G	1.8	Low flow with a conventional MWD and is specially formulated with an additive package that enhances clarity.	Blow-molded articles, extruded sheet and profiles with good melt strength, excellent clarity, excellent gloss and good regrind stability.
RP270G	1.8	High transparency and gloss, excellent processability & can be converted on form-fill-seal equipment.	Blow molded medical articles. transparent bottles & containers for blood, intravenous solutions, pharmaceutical solutions, medicines & salves. Packaging for health care products. Film & sheet for thermoforming.

Polypropylene-Homopolymer

PP-High Impact Copolymer-Injection

Grade Name	MFR(gr/10min) (5kg,190OC)	Properties	Application
EPS30R	1.5	High impact strength, excellent processing characteristics.	Crates, paint fails, heavy duty packaging.
EP200K	3.5	Outstanding processability with extremely high impact resistance and very high toughness.	Furniture and suitcases, sport and bicycle parts. Boxes, containers, pallets, crates, pails and lids. Bitumen modification and compounding applications.
EP300K	3.5	Medium – high flow, excellent balance between flow, very high impact strength and good stiffness.	Medium sized containers, buckets, pails, crates for cold storage. Household articles. Small appliance, automotive and industrial application. Seats, chair shells, toys, suitcases. Thermoforming multilayer container for dairy products.
EP540L	6	Excellent balance of stiffness, impact strength (even at low temperatures) and process ability.	Crates, caps and thin-walled packaging for cold shelf presentation. Automotive & Appliance parts, wheels, furniture, chair shells and stadium seats. Cast film for stationery.
EPC40R	7	Excellent balance of mechanical properties & process ability & features an excellent long-term heat stability. Very high resistance to chemicals & crazing.	Automotive components such as battery cases, brake fluid reservoirs, wash water reservoirs, dashboard supports, luggage compartment trims & door trim panels.
EP440N	12	Improved mechanical property balance and outstanding stiffness. Combines superior stiffness with high impact strength, even at low temperatures.	Packaging, automotive and consumer goods industries such as luggage, paint pails, buckets, crates, batteries and large toys.

Polypropylene-Homopolymer

PP-High Impact Copolymer-Injection

Grade Name	MFR(gr/10min) (5kg,190C)	Properties	Application
EP548R	21	High stiffness, good impact resistance, high dimensional stability and excellent antistatic properties.	Thin-walled or long flow path articles such as flower pots, filters, filters housings and appliance components.
EP740R	25	High stiffness, good impact resistance, high dimensional stability and excellent antistatic properties.	Thin-walled or long flow path articles such as flower pots, filters, filters housings and appliance components.
EPH31RA	40	High stiffness, good impact resistance, outstanding organoleptic properties and excellent antistatic properties.	Thin-walled packaging such as margarine tubs and pots for mayonnaise and dairy or fatty products. Caps, closures and flower pots, appliance components, and cool boxes.
EP548S	45	Nucleated with anti-static agent. Outstanding balance of mechanical properties and high fluidity.	Extensively used in house wares and in thin-walled containers for food packaging (e.g. margarine tubs, yoghurt pots, etc.).
EP348U	70	Very high melt flow rate. Excellent impact resistance, even at low temperatures and effective antistatic. Low shrinkage and minimal warpage.	Packaging for margarine tubs, pots for dairy products, ice-cream containers, trays, video cassette envelopes, caps and closures, Lunch-boxes, cool boxes, laundry baskets, and flower pots.
EP648V	100	Ultra-high fluidity. Good stiffness/impact balance, good dimensional stability and outstanding antistatic properties.	Packaging, house wares and garden furniture. Items with long flow paths such as laundry bins, drawer trays, video boxes, margarine tubs and packaging for dairy products.