

Eco Compound

Product selection guide of *Eco Meplen* polypropylene compounds with recycled content for real sustainable performance.



Driving circular innovation

LYB recognizes the challenges of plastic waste and we are committed to producing and marketing at least 800,000 metric tons of recycled and renewable based polymers annually by 2030.

With the recycling and compounding expertise brought forward by the acquisition of the Mepol Group, LYB continues to transform post-consumer and post-industrial plastic waste into high-quality, tailor-made solutions. With over 40 years of expertise in mechanical recycling and compounding of high-performance materials from recycled content, this acquisition expands our market reach in Poland and Italy, strengthening our dedication to reducing plastic waste and promoting a circular economy.

As a part of the LYB Advanced Polymers Solutions (APS) business segment, the *Eco Compound* polypropylene compound portfolio from the Mepol Group offers sustainable solutions by incorporating recycled materials sourced from the company's recycling facilities. These materials go into a variety of markets, such as transportation, furniture and other consumer goods, helping customers address legislation changes and achieve their sustainability goals.

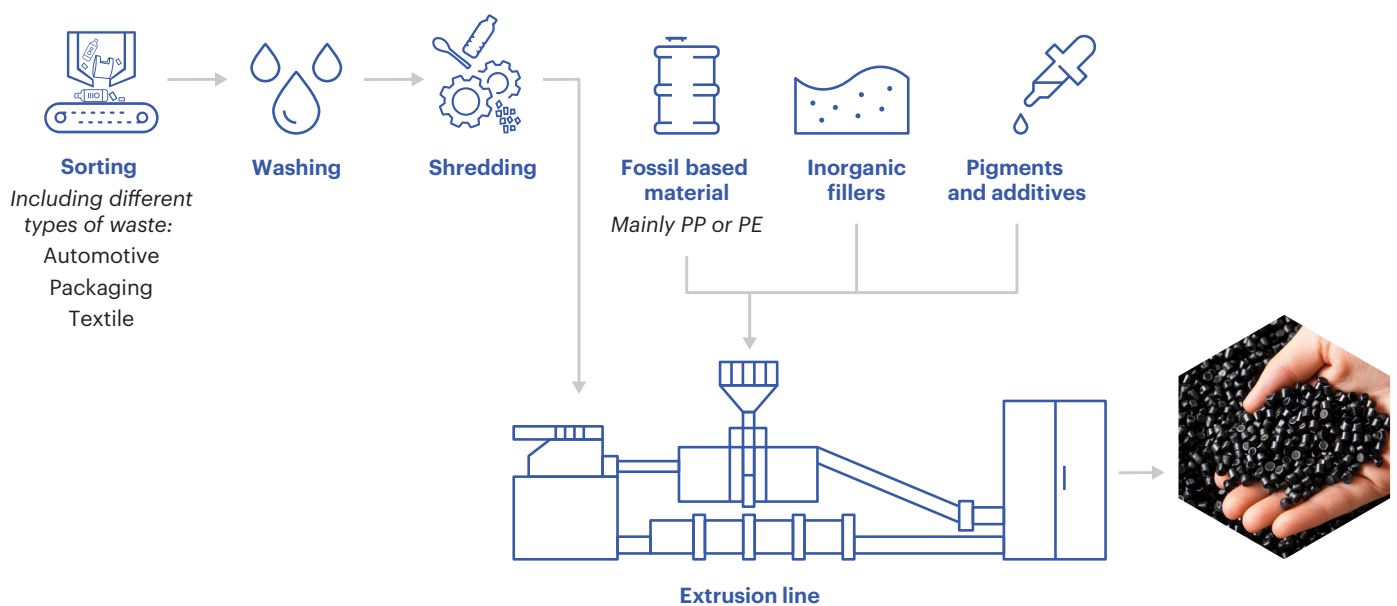




Expansion with a technological edge

The acquired mechanical recycling and compounding facilities can optimize plastic waste management and compound supply. This expansion fosters a seamless cycle of recycling, product design and manufacturing.

With these new technologies, LYB upholds the highest standards of system quality, traceability across the value chain and recycled content innovation. Through rigorous quality control, including comprehensive process control and in-house testing, our sites in Italy and Poland have achieved a wide range of certifications to ensure our products meet top industry standards.



Eco Compound product grades - transportation

Product	Color	Description	Applications examples	Pre-consumer content (%)	Density (g/cm ³) ISO 1183	MFR 190°C/2.16Kg [g/10min]	Flexural modulus (MPa) ISO 178	IZOD [Notched, +23°] (kJ/m ²) - ISO 180
Eco Meplen IC M10 BK 02	Black	PP copolymer compound	Wheel well shelter	67	0,93	12	1100	6,5
Eco Meplen IC M10 BK 17	Black	PP copolymer compound	Under hood item	95	0,95	10	1000	10
Eco Meplen IC Z50 BK	Black	PP copolymer high impact compound	Mudguard	95	0,96	12	800	45
Eco Meplen IYC M08 BK	Black	PP high impact copolymer compound	Wheel well shelter	67	0,90	8	850	35
Eco Meplen IYC T10 BK	Black	PP copolymer 10% talc filled compound	Aerodynamic and underbody guards	61	0,96	10	1200	35
Eco Meplen IC T20 BK 01	Black	PP copolymer 20% talc filled compound	Under hood item	75	1,06	10	1800	4,5
Eco Meplen IH T20 BK 01	Black	PP homopolymer 20% talc filled compound	Under dash air duct	54	1,04	10	2150	3
Eco Meplen IC T27 BK 01	Black	PP copolymer 27% talc filled compound	Dashboard components	50	1,15	7	2000	4
Eco Meplen IC T30 BK 01	Black	PP copolymer 30% talc filled compound	Bumper support brackets	46	1,13	8	2150	8
Eco Meplen IH T40 BK 02	Black	PP homopolymer 40% talc filled compound	Air filter body, heater box	41	1,25	10	3400	2
Eco Meplen IH F20 BK	Black	PP homopolymer 20% chemical coupled glass fibre reinforced compound	Aerodynamics deflectors	53	1,03	7	3500	8
Eco Meplen IC F30 BK 01	Black	PP copolymer 30% glass fiber reinforced chemically coupled compound	Various reinforcements	45	1,12	7	5200	12
Eco Meplen IH F30 BK	Black	PP homopolymer with 30% glass fiber reinforced compound	Under hood item	65	1,12	9	3800	8
Eco Meplen IH F40 BK 01	Black	PP homopolymer with 40% glass fiber reinforced	Lower cowl panel	40	1,20	5	7500	9
Eco Meplen IH FT30 BK	Black	PP recycled material based, 30% glass fiber / talc reinforced chemically coupled, industrial quality	Air filter body	46	1,13	10	3800	6
Eco Meplen IC S30 N	Black	PP copolymer 30% glass beads filled	Scooter helmet compartment	65	1,12	10	1350	3,5
Eco Meplen IC B25 BK	Black	Polypropylene copolymer with 25% barium sulphate	Air filter box	70	1,12	10	1450	5

Product selection guide

Eco Compound product grades - consumer goods

Product	Color	Description	Applications examples	Pre-consumer content (%)	Post-consumer content (%)	Density (g/cm3) ISO 1183	MFI PP (g/10 min) - ISO 1133	Flexural modulus (MPa) ISO 178	Tensile modulus (MPa) - ISO 527-2	IZOD [Notched, +23°] (kJ/m2) - ISO 180	CHARPY [Notched, +23°C] (kJ/m2) - ISO 179-1
Eco Meplen IC T10 GR0432	Grey	PP copolymer 10% talc filled compound	Closet	85	–	1,02	42	1200	–	4	–
Eco Meplen IC T15 BK0360	Black	PP copolymer 15% talc filled compound	Chair elements	70	–	1,00	15	1100	–	6	–
Eco Meplen IC T20	Nat	PP copolymer 20% talc filled compound	Chair	30	–	1,04	10	2000	2200	4	–
Eco Meplen IC T20 01 LS	Nat	PP copolymer 20% talc filled compound, UV stabilized and with antistatic	Chair	75	–	1,04	21	2000	–	4	–
Eco Meplen IC T40 BK0094	Black	PP copolymer 40% talc filled compound	Hanger	50	–	1,24	14	–	3100	–	3
Eco Meplen CC T40 BK0094	Black	PP copolymer 40% talc filled compound	Hanger	20	30	1,24	15	–	3100	–	3
Eco Meplen CX F15 L GR0399	Grey	PP 50% post consumer recycled material based and 50% post industrial, 15% glass fiber reinforced, chemically coupled, UV stabilized	Chair	37,5	37,5	1,04	10	2800	–	7	–
Eco Meplen IH F15 GR0267	Grey	PP homopolymer recycled material based, 15% glass fibre reinforced, chemically coupled	Shelf	45	–	1,00	5	–	3500	–	5
Eco Meplen IHC F20 L3 BK0094	Black	PP homopolymer 20% glass fiber reinforced, chemically coupled, UV stabilized>300kLy	Chair	30	–	1,04	8	–	4500	–	7
Eco Meplen CX F20 L GR0399	Grey	PP compound based 50% post consumer and 50% pre consumer recycled material, 20% glass fiber reinforced, chemically coupled, UV stabilized	Chair	35	35	1,04	8	–	4000	7	–
Eco Meplen IC F25	Nat	PP copolymer 25% glass fiber reinforced chemically coupled compound	Fittings	36	–	1,08	5	–	4700	12	–
Eco Meplen IC F25 BK	Black	PP copolymer 25% glass fiber reinforced chemically coupled compound, with 2% of carbon black	Fittings	65	–	1,08	5	3000	3500	8	–
Eco Meplen IC F30 LS	Nat	PP copolymer 30% glass fiber reinforced chemically coupled compound, UV stab, with antistatic	Chair	65	–	1,12	12	4700	5600	12	–
Eco Meplen IH F30 BK	Black	PP homopolymer 30% glass fiber reinforced chemically coupled compound	Building accessories	30	–	1,12	9	4000	5000	8	–
Eco Meplen IH F30	Nat	PP homopolymer 30% glass fiber reinforced chemically coupled compound	Chair	35	–	1,12	5	5100	5800	10	–
Eco Meplen IC F40 S	Nat	PP homopolymer 40% glass fiber reinforced chemically coupled and antistatic compound	Chair	30	–	1,21	5	7200	8500	15	–

Product selection guide

Eco Compound product grades - consumer goods (continued)

Product	Color	Description	Applications examples	Pre-consumer content (%)	Post-consumer content (%)	Density (g/cm3) ISO 1183	MFI PP (g/10 min) -ISO 1133	Flexural modulus (MPa) ISO 178	Tensile modulus (MPa) -ISO 527-2	IZOD [Notched, +23°] (kJ/m2) -ISO 180	CHARPY [Notched, +23°C] (kJ/m2) -ISO 179-1
Eco Meplen IC M10 BK	Black	PP copolymer injection moulding compound	Various	95	–	0,94	10	1000	1100	8	–
Eco Meplen IC M25 BK	Black	PP copolymer high flow black compound	Chair	95	–	0,94	25	–	1000	6	–
Eco Meplen TC M45 O2	Nat	PP high fluidity with rheological and mechanical improved properties compound	Toys - pencil case	50	–	0,90	45	1000	–	5	–
Eco Meplen CC C10 BK0094	Black	PP copolymer recycled material based, 10% CaCO ₃ filled	Shelf / Bucket	30	50	0,96	27	–	1200	–	3
Eco Meplen IC C10 BK0094 01	Black	PP copolymer recycled material based, 10% CaCO ₃ filled	Shelf / Bucket	80	–	0,96	27	–	1250	–	3
Eco Meplen IC C10 WH0239 01	White	PP copolymer recycled material based 10% CaCO ₃ filled	Shelf / Bucket	79,5	–	0,96	27	–	1250	–	3
Eco Meplen IC C15 IV0944	Ivory	PP copolymer recycled material based, 15% CaCO ₃ filled compound	Closet	75	–	1,02	35	1200	–	4	–
Eco Meplen TC C20 BK0366	Black	PP copolymer 20% CaCO ₃ filled compound with high fluidity	Closet	70	–	1,05	35	1450	–	3	–
Eco Meplen CC C20 BK0094	Black	PP copolymer recycled material based, 20% CaCO ₃ filled	Shelf / Bucket	20	50	1,04	22	–	1300	–	4,5
Eco Meplen IC C20 WH0239	White	PP copolymer recycled material based, 20% CaCO ₃ filled	Buckets	69,5	–	1,04	22	–	1300	–	4,5
Eco Meplen IC C20 BK 07	Black	PP copolymer recycled material based, 20% CaCO ₃ filled	Adjustable floor support	70	–	1,06	14	1200	–	4	–
Eco Meplen IC C20 BK0094	Black	PP copolymer recycled material based, 20% CaCO ₃ filled	Bucket	70	–	1,04	22	–	1300	–	4,5
Eco Meplen IC CT20 GR0318	Grey	PP copolymer recycled material based, 20% CaCO ₃ /talc filled	Tray	50	–	1,04	22	–	1800	–	3
Eco Meplen IC C30 N	Black	PP copolymer recycled material based, 30% CaCO ₃ filled	Plastic seat support	75	–	1,12	7	1500	–	5,5	–
Eco Meplen IC C40 BK 01	Black	PP copolymer recycled material based, 40% CaCO ₃ filled	Support raised floors	55	–	1,28	14	2200	–	2,5	–

Product selection guide

Eco Compound product grades - electrical & electronics

Product	Color	Description	Applications examples	Pre-consumer content (%)	Post-consumer content (%)	Density (g/cm3) ISO 1183	MF1PP (g/10 min) - ISO 1133	Flexural modulus (MPa) ISO 178	Tensile modulus (MPa) - ISO 527-2	IZOD [Notched, +23°] (kJ/m2) - ISO 180	CHARPY [Notched, +23°C] (kJ/m2) - ISO 179-1
Eco Meplen IC CT20 BK0094	Black	PP copolymer recycled material based, 20% CaCO ₃ /talc filled.	Accessory for hanging lights	67	–	1,04	22	–	1800	–	3
Eco Meplen IC CT20 WH0239	White	PP copolymer recycled material based, 20% CaCO ₃ / Talc filled compound	Accessory for hanging lights	67	–	1,04	22	–	1800	–	3
Eco Meplen IC CT30 L GR0328	Grey	PP copolymer recycled material based, 20% CaCO ₃ / Talc filled compound	Containers and covers	50	–	1,12	6	1800	–	–	4,5



About us

We are LyondellBasell (LYB) – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world's largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit www.lyb.com or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

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