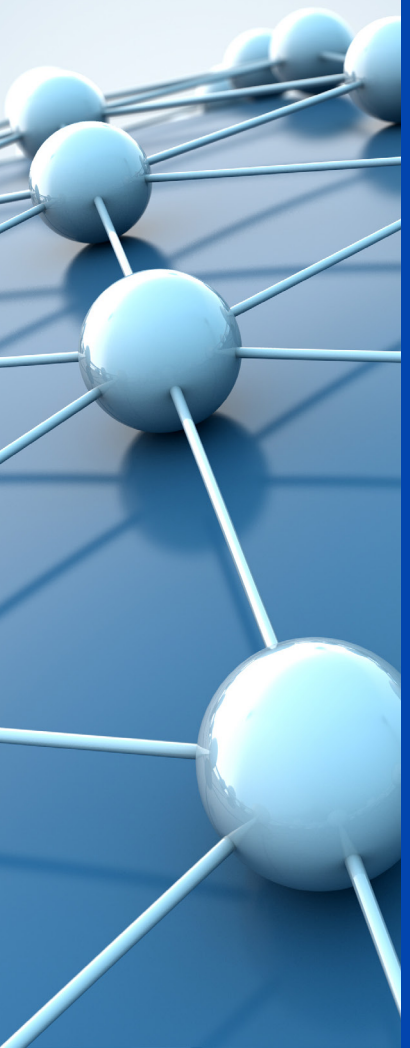

Ravago
MANUFACTURING

MAFILL®

MAFILL®

MAFILL® CR PP Industrial Quality Compounds is designed with best in class post-industrial PP processed base polymers.

The expertise of the scrap sorting team of Ravago assures that the selection of the industrial polymers used as raw materials are of high quality, with the stability and the specifications that make the MAFILL® PP grades very reliable products.

A perfect combination of price and quality, MAFILL® PP grades are highly recommended for a wide variety of applications like automotive and industrial parts.

MAFILL® PP compounds provide:

- High End Specifications
- UV Resistance
- Long Term Thermal Stability
- Cost Effective

MAFILL® Glass Filled - Product Portfolio

Grade Name	Product Description	Density	MFI	Ash Content	Flexural Modulus	Tensile Modulus	Tensile Stress at Yield	Izod Impact Strengh Charpy Notched		VICAT B50 (50N)	HDT/A (1,82 MPa)	HDT/B (0,46 MPa)
		[g / cm³]	230° / 2,16 Kg [g / 10min]	625° C [%]	[MPa]	[MPa]	[MPa]	23°C [kJ / m²]	23°C [kJ / m²]	°C	°C	°C
		ISO 1183	ISO 1133	ISO 3451	ISO 178	ISO 527	ISO 527	ISO 179 / 1eA	ISO 180 / 1A	ISO 306	ISO 75A	ISO 75B
PP Glass Filled												
CR XG 3344	PP homo/copo industrial quality compound, 20% Glass filled, black, medium heat aging stabilized, injection molding, easy flow.	1,04	5	20	3600	3750	52	7,5	8	107	117	150
CR XG 3344 H	PP homo/copo industrial quality compound, 20% Glass filled, black, high heat aging performance, excellent mechanical properties balance, easy flow.	1,02	5	20	4500	4200	52	7,5	8	110	125	150
CR XG 3544 H	PP homo/copo industrial quality compound, 30% Glass filled, black, high heat aging performance, excellent mechanical properties balance, high flow.	1,14	6	30	6400	6300	77	8	8	162	141	155
CR XG 6344 H	PP homo/copo industrial quality compound, 20% Glass filled, high flow, high heat aging performance, low emissions and odor, black, injection molding.	1,15	13	20	3800	4000	50	6	7	105	125	-
CR XG 5544	PP homo/copo industrial quality compound, 30% Glass filled, black, medium heat aging stabilized, injection molding, high flow.	1,13	11	30	5000	5300	65	8	7	110	130	150
CR XG 5544 H	PP homo/copo industrial quality compound, 30% Glass filled, black, high heat aging performance, excellent mechanical properties balance, high flow.	1,01	10	30	5500	5300	65	9	10	110	130	150
CR XG 5544 M	PP homo/copo industrial quality compound, 30% Glass filled, black, easy flow, basic stabilization.	1,13	10	30	4600	-	-	8	8	110	-	-
CR XGM 5344	PP homo/copo industrial quality compound, 30% Glass filled, impact modified, medium flow, basic heat aging performance.	1,13	10	25	3700	3600	50	13	15	-	-	-

MAFILL® Mineral Filled - Product Portfolio

Grade Name	Product Description	Density	MFI	Ash Content	Flexural Modulus	Tensile Modulus	Tensile Stress at Yield	Izod Impact Strengh Charpy Notched		VICAT B50 (50N)	HDT/A (1,82 MPa)	HDT/B (0,46 MPa)
		[g / cm³]	230° / 2,16 Kg [g / 10min]	625° C [%]	[MPa]	[MPa]	[MPa]	23°C [kJ / m²]	23°C [kJ / m²]	°C	°C	°C
		ISO 1183	ISO 1133	ISO 3451	ISO 178	ISO 527	ISO 527	ISO 179 / 1eA	ISO 180 / 1A	ISO 306	ISO 75A	ISO 75B
PP Mineral Filled												
CR CM 6144	PP Copolymer, Black, MFI 12, 10% mineral filled, industrial quality grade with excellent characteristics, injection molding.	0,98	12	10	1100	1100	24	8	8	67	52	-
CR CME 5144	PP Copolymer, industrial quality grade, Black, MFI 12, 10% mineral filled with elastomer addition, excellent impact performance, injection molding.	0,96	12	10	1000	900	20	20	23	-	-	-
CR CME 5144 S	PP Copolymer, industrial quality grade, Black, MFI 12, 10% mineral filled with elastomer addition, excellent impact performance, injection molding.	0,97	11	10	1100	1000	18	24	25	60	53	-
CR CT 5344	PP Copolymer, industrial quality grade, Black, MFI 11, 20% talc filled, high stability, injection molding.	1,1	11	22	1900	1800	23	6	7	66	58	-
CR CT 5344 H	PP Copolymer, industrial quality grade, Black, MFI 11, 20% talc filled, high stability, heat stabilized, injection molding.	1,05	11	22	1900	1800	23	6	7	66	58	-
CR CT 5644 H	PP Copolymer, industrial quality grade, Black, MFI 11, 40% talc filled, high stability, heat stabilized, injection molding.	1,25	11	41	3500	2400	22	5	5	70	65	-
CR CT 6344 H	PP Copolymer, industrial quality grade, Black, MFI 16, 20% talc filled, high stability, heat stabilized, injection molding.	1,05	16	22	2100	1800	24	8	9	65	56	-
CR HT 5344 H	PP Homopolymer, industrial quality grade, Black, MFI 12, 20% talc filled, heat stabilized, excellent characteristics, injection molding.	1,08	12	20	2600	2300	28	2,5	3	87	62	109
CR CTE 5344	PP Copolymer, industrial quality grade, Black, MFI 9, 20% talc filled, reinforced with elastomer, injection molding.	1,02	9	22	1600	1300	22	8	10	57	53	-
CR CTE 6344 HI	PP Copolymer, industrial quality grade, Black, MFI 12, 20% talc filled, reinforced with elastomer, excellent stiffness/ impact balance, injection molding.	1,05	12	20	1400	1100	24	27	30	-	-	-
CR XT 4344	PP Copolymer, industrial quality grade, Black, MFI 8, 20% talc filled, high stability, injection molding.	1,05	8	20	1900	2100	21	4,5	5	-	-	-
CR CT 5544 H	PP Copolymer, industrial quality grade, Black, MFI 11, 30% talc filled, high stability, heat stabilized, injection molding.	1,15	10	30	2200	2250	22	6	7	-	58	114

MAFILL® Unfilled - Product Portfolio

Grade Name	Product Description	Density	MFI	Ash Content	Flexural Modulus	Tensile Modulus	Tensile Stress at Yield	Izod Impact Strengh Charpy Notched		VICAT B50 (50N)	HDT/A (1,82 MPa)	HDT/B (0,46 MPa)
		[g / cm³]	230° / 2,16 Kg [g / 10min]	625° C [%]	[MPa]	[MPa]	[MPa]	23°C [kJ / m²]	23°C [kJ / m²]	°C	°C	°C
		ISO 1183	ISO 1133	ISO 3451	ISO 178	ISO 527	ISO 527	ISO 179 / 1eA	ISO 180 / 1A	ISO 306	ISO 75A	ISO 75B
PP Unfilled Black												
CR C 3044	PP Copolymer, industrial quality grade, black, MFI 8, unfilled grade, injection molding.	0,95	8	4	1100	1100	-	6	7	77	-	-
CR C 5044	PP Copolymer, industrial quality grade, black, MFI 10, unfilled grade, injection molding.	0,95	10	5	1100	1000	10	9	9	65	49	-
CR C 5044 H	PP Copolymer, industrial quality grade, black, MFI 12, unfilled grade, heat stabilized, injection molding.	0,95	12	7	1100	1000	23	11	13	62	49	-
CR CE 5044	PP Copolymer, industrial quality grade, black, MFI 10, unfilled grade, elastomer reinformed, high impact performance, injection molding.	0,93	10	5	900	800	15	30	30	TBD	46	-
PP Unfilled Natural												
CR C 6041	PP Copolymer, industrial quality grade, Natural, MFI 15, unfilled grade, high stability, injection molding.	0,91	15	4	1100	1100	8	5	6	72	50	-
CR C 7041	PP Copolymer, industrial quality grade, Natural, MFI 25, unfilled grade, high stability, injection molding.	0,91	25	3	1000	-	-	6	6	-	-	-
CR C 8042	PP Copolymer, industrial quality grade, Oxidized, MFI 33, unfilled grade, injection molding.	0,91	33	4	1000	-	-	4	5	-	-	-

MAFILL® PP Recycled Compounds

These recycled PP compounds offer the end user a broad range of solutions via a wide product portfolio that includes:

- Unfilled black, colored and natural grades
- Unfilled colored (terracotta, green)
- Unfilled natural
- Talc or CaCO3 filled (5-70%) black/natural
- Glass fibre reinforced (5-50%) black
- Combined filling
- Elastomer modified
- UV and heat stabilized
- MFI range from 1.5 to 40 g/10min
- Tailor made compounds

The quality control of raw material feedstock used for MAFILL® PP recycled compounds is a critical part of the manufacturing operation. Feedstock is fully tested and classified before the compounding operation. This allows the correct quality of feedstock to be allocated to the final product. Each MAFILL® PP recycled compound lot that is produced is shipped with a certificate of analysis.

High quality recycled PP compounds MAFILL® is recommended mainly for demanding and nonvisual applications including:

AUTOMOTIVE

- Cowl Vent Grill / Water Deflector
- Wheel Arch Liner
- Filter Housing
- Under Body Parts
- Battery Trays
- Headlight Housing
- Bumper Mount
- Inlet Manifold
- Toolbox

NON AUTOMOTIVE

- Garden Furniture
- Artificial Wood Profiles
- White Goods Parts
- Parts of Appliances

Compounding Solutions for Polymer Challenges

Ravago Manufacturing produces a wide range of plastic and rubber materials from high performance engineered resins to recycled post-consumer materials. Our goal is to provide consistent, high quality, competitively priced products to our customers and partners.

The Ravago Group is the number one service provider in the global market of plastics, rubber and chemicals.

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