EUROPEAN PRODUCT SELECTION GUIDE - EAI

Homopolymer Polypropylene Used in Compounding and Automotive*

All grades in this guide are available in renewable-based *Circulen*Renew polymers

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PROPERTIES	PHYSICAL		MECHANICAL					THERMAL		OPTICAL	Tm	SPECIFIC PROPERTIES FEATURES
	Density 23°C	MFR 230°C, 2,16kg	Tensile Modulus	Tensile Stress at Yield	Tensile Elongation at Yield	Tensile Elonga-tion at Break	Notched Charpy impact strength 23°C	Vicat Soften-ing Temp.	Heat Deflect. Temp. HDT/B	Gloss at 60° 1mm plate	Tm	
Test Method	ISO 1183	ISO 1133	ISO 527	ISO 527	ISO 527	ISO 527	ISO 179, A1	ISO 306/A50	ISO 75-2		ISO 11357-3	
Units	g/cm³	g/10 min	MPa	MPa	%	%	kJ/m²	°C	°C		°C	
Low flow PP Homo and Random Copolymers, *Hostalen*												
Hostalen PP H2450	0.9	0.3	1450	36	11	> 50	20	157	95	-	159	Very low fluidity, high impact/stiffness balance
Hostalen PP H1850	0.9	0.3	1300	33	14	> 50	16	155	95	-	160	Good stiffness/toughness balance. Yellowing resistance. Used in surge tank application
Hostalen PP HP1886	0.9	0.3	1400	34	10	> 50	14	151	101	-	157	Good stiffness/toughness balance, outstanding creep and stress cracking resistance. Used in surge tank application
Hostalen PP HP1886A	0.9	0.3	1400	34	10	> 50	14	151	101	-	157	Good stiffness/toughness balance, outstanding creep and stress cracking resistance, optimized for GF filled solutions. Used in surge tank application
PP Homopolymer, *Moplen*												
Moplen HP400H	0.9	2	1400	34	11	> 50	8	150	80	107	163	Good impact/stiffness balance
Moplen HP548L	0.9	5.5	1600	36	9	> 50	5.5	154	90	107	163	NU, AS, good stiffness
Moplen HP504N	0.9	9.5	1500	35	10	> 50	3.5	153	95	100	163	Good stiffness
Moplen HP501N	0.9	10	1500	34	10	> 50	3	155	95	-	163	Good stiffness
Moplen HP500N	0.9	12	1400	35	10	> 50	4	153	95	100	163	Good flow with high stiffness
Moplen HP548R	0.9	23	1600	35	8	> 50	2.7	154	95	100	163	NU, AS, good flow, high stiffness
Moplen HP400R	0.9	25	1350	32	10	> 50	3	154	90	-	163	Good flow, good stiffness
Moplen HP500S	0.9	40	1700	37	8	> 50	3	153	90	-	163	Very good flow, good stiffness
Moplen HP648T	0.9	53	1600	35	8	> 50	2	154	95	100	163	NU, AS, High fluidity, high stiffness
Moplen HP500V	0.9	120	1400	34	10	> 50	3	154	84	90	163	High flow, low emission, good stiffness
Moplen HP500W	0.9	150	1600	35	8	10	3	154	90	90	163	High flow, high stiffness
Moplen HP560W	0.9	450	-	-	-	-	-	-	-	-	163	Very High Flow, controlled rheology
Moplen HP560X	0.9	800	-	-	-	-	-	-	-	-	163	Very high flow, controlled rheology
Moplen HP560Y	0.9	1200	-	-	-	-	-	-	-	-	163	Ultra high flow, controlled rheology
Moplen HP560Z	0.9	1500	-	-	-	-	-	-	-	-	163	Ultra high flow, controlled rheology
PP Homopolymer, *Metocene*												
Metocene HM650V	0.9	150	1450	35	7	-	-	98	-	-	154	Very high melt flow; very narrow molecular weight distribution
PP Homopolymer, *Adstif*												
Adstif HA840R	0.9	20	2300	41	6	12	2	158	110	95	163	NU, oustanding stiffness and high gloss
Adstif HA1152	0.9	25	2100	40	6	15	2	158	110	-	163	Outstanding stiffness, high flow, high gloss
Adstif HA600U	0.9	70	1550	34.5	9	> 50	2	155	90	-	163	High flow and high stiffness, low emission

Legend: AS=Antistatic; NA=Not Applicable; NB=No Break; NU=Nucleated

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Heterophasic Copolymer Polypropylene Used in Compounding and Automotive*

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PROPERTIES	PHYSICAL		MECHANICAL								THERMAL	OPTICAL	Tm	SPECIFIC PROPERTIES FEATURES
	Density 23°C	MFR 230°C, 2,16kg	Tensile Modulus	Tensile Stress at Yield	Tensile Elongation at Yield	Tensile Elongation at Break	Notched Charpy impact strength				Vicat Softening Temp.	Gloss at 60° 1mm plate	Tm	
							23°C	0°C	-20°C	-30°C				
Test Method	ISO 1183	ISO 1133	ISO 527	ISO 527	ISO 527	ISO 527	ISO 179, A1				ISO 306/A50		ISO 11357-3	
Units	g/cm³	g/10 min	MPa	MPa	%	%	kJ/m²				°C		°C	
PP Heterophasic Copolymers, *Hostalen*														
Hostalen EPD60R	0.90	0.4	1100	26	15	> 50	54	18	-	3.5	151	-	163	Good toughness and impact strength at low temperature; UL-listed
PP Heterophasic Copolymers, *Moplen, Hifax, Purell*														
Moplen EP440G	0.90	1.3	1450	27	8	> 50	40	10	7	-	150	65	163	High impact, good dimensional stability and excellent creep
Moplen EP400H	0.90	2	1300	27	8	> 50	30	10	7	-	150	65	163	Low flow, excellent mechanical balance
Moplen EP240H	0.90	2	1000	23	8	> 50	80	12	8	-	148	73	163	NU, low flow, very good low temperature impact
Moplen EP1006	0.90	2	1300	26	8	100	35	9.5	6	-	149	-	163	NU, good impact, low stress whitening, heat aging resistance.Battery cases and parts
Moplen EP300K	0.90	4	1200	27	9	> 50	13	6	4.5	-	150	80	163	Good impact and stiffness
Moplen EP300M	0.89	7	900	21.5	7	400	45	9	6	5	143	80	163	Good fluidity/impact/siffness balance
Moplen EP332L	0.90	7	1200	26	8	70	9	6	3.5	-	148	-	163	Medium stiffness-impact balance; good heat aging resistance. Battery cases and parts
Hifax EP3080	0.89	7.5	800	17	6	500	65	40	15	10	130	40	163	NU, high impact strenght at low temperature
Hifax EP3080G	0.89	7.5	800	17	6	500	65	40	15	10	130	40	163	NU, high impact strenght at low temperature, UV stabilized
Moplen EP3200**	0.89	9	900	21	8	600	16	9	5	-	-	-	-	Tiger stripe corrector with improved melt flow performance
Moplen EP540N	0.90	12	1400	27	5	18	8.5	5	4	-	151	75	163	NU, medium flow, good impact/stiffness balance
Moplen EP3307	0.89	14	1100	19	7	350	40	10	7	6	140	50	163	NU, UV stabilized, medium flow, good Impact/stiffness balance
Moplen EP300N	0.89	15	1050	24	7	300	10	5	4	-	148	-	163	NU, medium flow impact copolymer
Moplen 2000HEXP	0.89	16	1000	19	5	100	17	10	8	6	140	50	163	Medium flow, good impact/stiffness balance
Moplen EP548R	0.90	21	1500	27	5	> 50	6	4.5	4	-	150	-	163	NU, AS, high flow, good impact/stiffness balance
Moplen EP140R**	0.90	22	750	14	6	30	60	14	10	7	-	-	-	NU, Very good flow/impact balance
Moplen EP548S	0.90	44	1550	28	5	30	5	3.5	3	-	151	75	163	NU, AS, high flow, good impact/stiffness balance
Moplen EP240T	0.90	48	950	19	5	> 50	10	7	4	-	142	-	163	NU, High flow, high impact
Moplen EP448T	0.90	48	1350	27	5	>50	5	3.5	2.5	-	151	-	163	NU, AS, high flow, good impact
Moplen EP300U	0.89	70	1000	23	7	70	7	4	3	-	145	85	163	Very high flow impact copolymer
Moplen EP548U	0.90	70	1450	28	5	30	5.5	3.5	3	-	151	-	163	NU, AS, very high flow with good balance of mechanical properties
Moplen EP549U	0.90	70	1260	23	4	20	9	6	5	-	147	-	163	NU, AS, very high flow and good impact
Moplen EP500V	0.90	100	1100	24	5	20	5	3	2	-	149	75	163	Ultra high flow, good impact, low emission
Moplen EP600V	0.90	100	1300	26	5	35	4	2.5	2	-	151	85	163	Ultra high flow, low emission
PP Heterophasic Copolymer, *Adstif*														
Adstif EA600P	0.90	18	600	32	5	50	5.5	4	2.5	-	153	80	165	Medium flow, very high stiffness impact copolymer

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**Product is under development, the parameters are the subject for verification

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Polypropylene in Flake Form Used in Compounding and Automotive*

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PROPERTIES	PHYSICAL			MECHANICAL		Tm	SPECIFIC PROPERTIES FEATURES
	Density 23°C	MFR 230°C, 2,16kg	MFR 230°C, 5 kg	Tensile Modulus	Notched Charpy impact strength 23°C	Tm	
Test Method	ISO 1183	ISO 1133-1	ISO 1133-1	ISO 527	ISO 179, A1	ISO 11357-3	
Units	g/cm³	g/10 min	g/10 min	MPa	kJ/m²	°C	
PP Homopolymer, *Moplen*							
Hostalen HF500B	0.9	0.2	0.7	1300	-	159	Not stabilised polypropylene homopolymer powder
Moplen HF400G	0.9	1.2		1450	3.5	163	Not stabilised polypropylene homopolymer powder
Moplen HF500H	0.9	1.2		1300	4	163	Good impact/stiffness balance
Moplen HF501N	0.9	10		1550	3	163	Good flow with high stiffness
PP Heterophasic Copolymers, *Moplen*							
Hostalen EF300C	0.9		0.8				
Moplen EF200D	0.9	0.6		1100	30	163	Very good impact
Moplen EF300K	0.9	4		1200	10.5	163	Good impact
PP Random Copolymer							
Hostalen RF200C	0.9		1.1				
PP Homopolymer, *Metocene*							
Metocene MF650Y	0.9	1800		-	-	155	Extremely high melt flow; very narrow molecular weight distribution

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