

Polypropylene, *Catalloy* and Polybutene-1 grades used in film applications

Selection Guide – Europe



PP, CTY & PB-1

Grades used in BOPP and double bubble film applications – properties and typical customer applications

Grade Name	Typical Resin Properties									Typical Customer Applications															
	MFR (190°C/2,16 kg) [g/10 min] ISO 1133	MFR (230°C/2,16 kg) [g/10 min] ISO 1133	Density [g/cm³] ISO 1183-1	Melting Temperature [°C]	Vicat Softening Temperature A50 (50°C/h 10 N) ISO 306/A	Sealing Initiation Temperature (SIT) °C	Flexural Modulus [MPa] ISO 178	Molecular Weight Distribution (MWD)	Additivation	General purpose	Breathable	Flower	Food Packaging	Label	Lamination	Tapes	Metallizable	Shrink Film	Stationary	Tailoring Sealing Properties (Hot-tack, SIT)	Textile packaging	Tobacco	Twist wrap	Seal peel to PP	Non Phthalate
Moplen HP520H		2.0	0.90	160	155		1400			•		•	•	•	•	•	•	•		•					•
Moplen HP522H		2.0	0.90	160	155		1400		CSNA	•	•	•	•	•	•	•	•	•			•				•
Moplen HP422H		2.0	0.90	158	153		1350		CSNA	•		•	•	•	•	•	•	•			•				•
Moplen HP525J		3.0	0.90	160	154		1400		CSNA	•		•	•	•	•	•	•	•			•				•
Moplen HP526J		3.0	0.90	160	154		1400	CR	CSNA	•		•	•	•	•	•	•	•			•				•
Moplen HP520J HP		3.0	0.90	160	154		1400			•		•	•	•	•	•	•	•			•				•
Moplen HP420M		8.0	0.90	160	153		1350			•	•	•	•	•	•	•	•	•		•					•
Adstif HA612M		8.0	0.90	165	160		1900	Broad	CSNA	•		•	•	•	•	•	•	•		•		•			•
Adstif HA622H		2.0	0.90	164	160		1750		CSNA	•		•	•	•	•	•	•	•			•	•			•
Moplen RP210G		1.8	0.90	144	135	130	850					•	•	•	•	•	•	•							•
Clyrell RC112G		1.7	0.90	130	113	113	450	CR				•	•	•	•	•	•	•							•
Clyrell RC112L		7.0	0.90	130	113	113	450	CR	CSNA			•	•	•	•	•	•	•							•
Clyrell RC213M		10.5	0.90	140	130	120	1000		AB - CSNA			•	•	•	•	•	•	•				•			•
Adsyl 3 C 30 F HP		5.5	0.90	137	122	112			CSNA			•	•	•	•	•	•	•			•				•
Adsyl 3 C 90 F HP		5.5	0.9	137	122	112			CSNA			•	•	•	•	•	•	•			•				•
Adsyl 5 C 30 F		5.5	0.90	132	111	105						•	•	•	•	•	•	•			•				•
Adsyl 5 C 33 F		5.5	0.90	132	111	105			CSNA			•	•	•	•	•	•	•			•				•
Adsyl 5 C 37 F		5.5	0.90	132	111	105			S - AB			•	•	•	•	•	•	•			•				•
Adsyl 5 C 39 F		5.5	0.90	132	111	105			AB			•	•	•	•	•	•	•			•				•
Adsyl 5 C 90 F		5.5	0.90	132	111	105						•	•	•	•	•	•	•			•				•
Adsyl 5 C 93 F		5.5	0.90	132	111	105			CSNA			•	•	•	•	•	•	•			•				•
Adsyl 5 C 97 F		5.5	0.90	132	111	105			S - AB			•	•	•	•	•	•	•			•				•
Adsyl 5 C 99 F		5.5	0.90	132	111	105			AB			•	•	•	•	•	•	•			•				•
Adsyl 5 C 30 F ST		6.0	0.90	132	111	105		CR				•	•	•	•	•	•	•			•				•
Adsyl 5 C 37 F ST		6.0	0.90	132	111	105		CR	S - AB			•	•	•	•	•	•	•			•				•
Adsyl 5 C 39 F ST		6.0	0.90	132	111	105		CR	AB			•	•	•	•	•	•	•			•				•
Adsyl 5 C 99 F ST		6.0	0.90	132	111	105		CR	AB			•	•	•	•	•	•	•			•				•
Adsyl 6 C 30 F		5.5	0.90	126	107	95		CR				•	•	•	•	•	•	•			•				•
Adsyl 7572 XCP		5.5	0.90	126	105	92		CR				•	•	•	•	•	•	•			•				•
Adsyl 7410 XCP		5.5	0.90	125	96	75		CR	CSNA			•	•	•	•	•	•	•			•				•
Adsyl 7423 XCP		5.5	0.90	130		115		CR	AB			•	•	•	•	•	•	•			•				•
Adflex Q 100 F		0.6	0.88	142	60		100				•	•	•	•	•	•	•	•							•
Adflex Q 300 F		0.8	0.89	160			330				•	•	•	•	•	•	•	•							•
Adflex C 200 F		5.5	0.89	142	77		200				•	•	•	•	•	•	•	•							•
Adflex Q 190 F		0.6	0.88	142	60		100				•	•	•	•	•	•	•	•							•
Adflex C 290 F		5.5	0.89	142	77		200				•	•	•	•	•	•	•	•							•
Toppyl SP 2101 C		8.0	0.91	143					S - AB			•	•	•	•	•	•	•					•		•
Toppyl SP 2102 C		5.7	0.90	133					S - AB			•	•	•	•	•	•	•					•		•
Toppyl SP 2103 C		6.5	0.90	137								•	•	•	•	•	•	•					•		•
Koattro KT AR 05	0.5		0.89	114			25				•	•	•	•	•	•	•	•		•					•
Koattro KT MR 05	1.3		0.89				10				•	•	•	•	•	•	•	•		•					•
Toppyl PB 8220M	2.5	7.5	0.90	97	88		140					•	•	•	•	•	•	•		•					•
Koattro DP 8310M	3.5	10.0	0.90	94	80		120					•	•	•	•	•	•	•		•					•

S – Slip
N – Nucleated
AB – Anti-block
CR – Controlled Rheology
AS – Anti-static
CSNA – Calcium Sterate Not Added

PP, CTY & PB-1

Grades used in cast and blown film applications –
properties and typical customer applications

Grade Name	Typical Resin Properties									Typical Customer Applications																	
	MFR (190°C/2,16 kg) [g/10 min] ISO 1133	MFR (230°C/2,16 kg) [g/10 min] ISO 1133	Density [g/cm³] ISO 1183-1	Melting Temperature [°C] Internal method	Vicat Softening Temperature A50 (50°C/h 10 N) ISO 306/A	Sealing Initiation Temperature (SIT) °C	Flexural Modulus [MPa] ISO 178	Molecular Weight Distribution (MWD)	Additivation	General purpose	Collation shrink	Flower	Food Packaging	Freezer	Hygienic	Label	Lamination	Metallizable	Retorting	Stationary	Sterilisable	Surface protection	Tailoring Sealing Properties (Hot-tack, SIT)	Tapes	Textile packaging	Twist wrap	Seal peel to PP
Moplen HP556E		0.8	0.90	162	153		1400			•		•									•						•
Moplen HP420M		8.0	0.90	160	153		1350					•			•						•		•				•
Moplen HP515M		9.0	0.90	160	153		1300	CR	S - AB		•	•		•	•	•			•	•				•			•
Moplen HP510M		9.0	0.90	160	153		1300	CR	CSNA		•	•		•	•	•			•	•				•			•
Adstif HA612M		8.0	0.90	165	160		1900	Broad	CSNA			•				•	•			•			•	•			•
Adstif HA622H		2.0	0.90	164	160		1750		CSNA			•				•	•			•				•			•
Moplen EP310D HP		0.8	0.90	162	150		1080					•	•			•	•			•	•						•
Moplen EP310J HP		3.0	0.90	166			1380		N			•	•			•	•			•	•						•
Moplen EP310M HP		7.5	0.90	164	144		1050		N			•	•			•	•			•	•						•
Moplen RP210G		1.8	0.90	144	135	130	850			•		•															•
Moplen RP310M		8.5	0.90	150	140	133	1100					•		•					•								•
Moplen RP315M		8.5	0.90	150	140	133	1100		S - AB		•	•		•					•					•			•
Moplen RP316M		8.5	0.90	150	140	133	1100		S - AB - AS		•	•		•					•					•			•
Moplen RP320M		8.5	0.90	143	135	125	850	CR			•	•		•					•					•			•
Moplen RP325M		8.5	0.90	143	135	125	850	CR	S - AB		•	•		•					•					•			•
Moplen RP220M		8.5	0.90	138	125	118	700	CR			•	•		•					•					•			•
Moplen RP225M		8.5	0.90	138	125	118	700	CR	S - AB		•	•		•					•					•			•
Clyrell RC124H		2.2	0.90	140	120	117	750	CR	N			•		•										•			•
Clyrell RC110E		0.8	0.90	130	113	113	450		CSNA	•		•		•										•			•
Clyrell RC112G		1.7	0.90	130	113	113	450	CR		•		•		•													•
Clyrell RC112L		7.0	0.90	130	113	113	450	CR	CSNA			•		•													•
Clyrell RC215M		10.5	0.90	140	130	120	1000		S - AB			•		•					•								•
Clyrell RC213M		10.5	0.90	140	130	120	1000		AB - CSNA			•		•					•					•			•
Adflex Q 100 F		0.6	0.88	142	60		100						•														•
Adflex Q 300 F		0.8	0.89	160			330						•														•
Adflex C 200 F		5.5	0.89	142	77		200						•														•
Adflex Q 190 F		0.6	0.88	142	60		100						•														•
Adflex C 290 F		5.5	0.89	142	77		200						•														•
Adflex X 500 F		7.5	0.89	163	95		550						•														•
Toppyl SP 2101 C		8.0	0.91	143					S - AB										•		•						•
Toppyl SP 2102 C		6.5	0.90	133					S - AB																		•
Toppyl SP 2103 C		6.0	0.90	137														•		•							•
Koattro KT AR 05	0.5		0.89				25																•				•
Koattro KT MR 05	1.3		0.87				10																•				•
Koattro DP 8310M	3.5	10.0	0.90	94	80		120																•				•
Toppyl PB 8220M	2.5	7.5	0.90	97	88		140																•				•

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