

INEOS Flexible Packaging Solutions

Overview – INEOS metallocene LLDPE – Eltex PF mLL grades

	Product	MI2.16 g/10 min	Density kg/m ³	Additives (ppm)				Applications
				AOx	PPA	Slip(1)	AB(2)	
mVLDPE	Eltex® PF0101XA	1.3	902	•				Superior sealing, stretch hood
	Eltex® PF0101KE	1.3	903	•	•	1200	2500	Superior sealing, lamination
	Eltex® PF0601XA	1.3	906	•				Toughness enhancer, flexible geomembrane
BLOWN FILM	Eltex® PF6012AA	1.3	912	•				Sealing layer, blends
	Eltex® PF6012KJ	1.3	913	•		1000	300	Sealing layer, blends
	Eltex® PF6112AA	1.3	915	•				SuperStrength film structures, blends
	Eltex® PF6212AA	1.3	919	•				Food packaging, thin film, HDS
	Eltex® PF6212AE	1.3	919	•	•			Food packaging, thin film
	Eltex® PF6212LA	1.3	919	•				High quality lamination & surface protection film
	Eltex® PF6212KE	1.3	920	•	•	1000	300	Food packaging, thin film
	Eltex® PF6612AA	1.3	926	•				High stiffness film, collation shrink
	Eltex® PF6612KE	1.3	927	•	•	1200	300	High stiffness film, collation shrink
	Eltex® PF6220AA	2.1	919	•				Food packaging, thin film
	Eltex® PF6220AE	2.1	919	•	•			Food packaging, thin film
	Eltex® PF6220KJ	2.1	920	•		1000	300	Food packaging, thin film
	CAST FILM (& compound)	Eltex® PF6030XA	3.0	912	•			
Eltex® PF6130AA		3.6	918	•				High performance stretch
Eltex® PF6130LA		3.6	918	•				High quality stretch film & artificial turf
Eltex® PF6140AA		4.5	918	•				High performance cast film & artificial turf
BPD3801		5.5	916	•				W&C LV insulation, jacketing and conduits
ExtCo	Eltex® PF1315AZ	15	914					Extrusion coating, compounds
	Eltex® PF1320AZ	20	913					Extrusion coating, compounds, injection moulding

(1) Erucamide ; (2) Synthetic silica

Overview – INEOS LLDPE-C6 grades

	Product	Ml2.16	Density	Additives (ppm)				Applications
	LLDPE - C6	g/10 min	kg/m ³	AOx	UV	Slip(1)	AB(2)	
BLOWN FILM	LL8109AA	0.9	918	•				Blown stretch, silage, mulch, heat shrink double bubble
	LL6208AF	0.9	920	•				Blend, liners, food packaging , thin films
	LL6208LJ	0.9	921	•		1200	2200	Blend, liners, food packaging , thin films
	LL6608AF	0.9	928	•				Rigid layer in coex, carrier bags, refuse sacks
	LL6608LJ	0.9	929	•		1200	600	Mailing film, carrier bags, bread bags
	LL6808AA	0.9	932	•				Geomembranes, collation shrink
	LL6910AA	1.0	936	•				Food packaging, thin film
	LL6910LA	1.0	936	•				High quality lamination & surface protection film
	LL6910KJ	1.0	937	•		800	400	Overwrap, counter bags, shrink film
CAST FILM	LL6120AA	2.3	920	•				cast stretch film
	LL6130AA	3.1	920	•				cast stretch film
	LL6430AA	3.3	926	•				Cast stretch film (anticling layer), hygiene
	LL6930AA	3.5	936	•				Cast stretch film (anticling), hygiene

(1) Erucamide

(2) Synthetic silica

Overview – INEOS LDPE grades

	Product	MFI	Density	Additives (ppm)			Applications
	LDPE	g/10 min	kg/m ³	Aox	Slip	AB	
Film	21D430	0.25	923	no	no	no	Heavy duty films, shrinkhoods
	22D730	0.30	922	no	no	no	Extra-strong bags, shrink film
	22G564	1.20	922	yes	450	850	Carrier bags
	22G764	1.20	922	yes	no	850	Strong bags, shrink film
	23H430	2.00	923	no	no	no	General purpose, shrink film, foam
	22H594	2.10	922	yes	500	850	General packaging
Coating, IM, Compounds	17L430	4.00	918	no	no	no	Low neck-in coating grade
	17L430B	4.00	918	no	no	no	Low neck-in coating grade
	23L430	4.50	924	no	no	no	General coating
	23L430B	4.50	923	no	no	no	General coating
	19N430	7.50	920	no	no	no	General coating, improved heat sealability vs 23L430
	19N430B	7.50	920	no	no	no	General coating, improved heat sealability vs 23L430
	19N930	7.50	920	no	no	no	IM, C&C, toys, household
	20P430	8.80	921	no	no	no	High speed coating, thin coatings
	20N430	8.50	921	no	no	no	Extrusion Coating, IM, Compounds
	18R430	15.0	918	no	no	no	thin coatings, lower heat seal temperature

Overview - INEOS EBA grades

	Product	MFI g/10 min	Density kg/m ³	Additives (ppm)			Plant	Applications
				Aox	Slip	AB		
EBA	B24D760	0.30	924	yes	no	no	Bamble	3% BA for elastic packaging
	B24D230	0.35	924	no	no	no	Bamble	8% BA for elastic packaging
	B26E730	0.60	925	no	no	no	Bamble	11% BA for stretchhoods
	B30G730	1.00	926	no	no	no	Bamble	17% BA for protection or soft film

Overview - INEOS EMAA Copolymers grades

MAA	M21E730	0.50	(933)	yes	no	no	Köln	1.7 % MAA for easy-tear applications
	M21G764	0.95	(926)	yes	no	yes	Köln	1.0 % MAA for FFS thin bags, deep freeze
	M21N430	7.50		no	no	no	Köln	1.2% MAA for adhesion to Al foil and met. film
	M24N430	7.50		no	no	no	Köln	3.8% MAA for adhesion to Al foil and met. film
	M28N430 - new	8.00		no	no	no	Köln	8.3% MAA for adhesion to Al foil and met. film

Overview - INEOS Ionomers grades

	Product	MI2.16 g/10 min	Density kg/m ³	MAA %	Additives (ppm)			Applications
					Aox	Slip	AB	
Film	M21E730	0.50	933	1.7	yes	no	no	easy-tear lamination antifusion shrink film
	M21G764	0.95	926	1.0	yes	no	yes	FFS thin bags, deep freeze
	I8H430Z	5.0	935	8.0	yes	no	no	Coating and film sealant through contaminant

Overview - INEOS HDPE-MDPE Copolymers grades

	HDPE grade	Melt-index (g/10min - 190°C)			Density kg/m ³	Additives			Applications
		2.16 kg	5 kg	21.6 kg		Aox	Slip	AB	
Copo	Rigidex K38-20	0.20	0.85	16	938	yes	no	no	Agrifilms, Industrial, bags, blends
	Eltex A5006FN1280	0.60	2.0	23	944	yes	no	no	High stiffness, straps
	J52-08-226	-	0.31	9	951	yes	no	no	Bags, refuse sacks, liners, mailing film
Homo	Rigidex HD6007S	0.60	-	-	962	yes	no	no	Blends, stiffness enhancer
	Eltex A4009MFN1325	0.90	-	-	960	yes	no	no	Cereal liner
	Eltex HD6009FA	0.90	-	-	960	yes	no	no	MDO film
	Rigidex HD6070FA	7.60	-	-	960	yes	no	no	Stiffness enhancer for gels sensitive films and coatings

Overview - INEOS PP film grades

	MFR (g/10min)	Slip	AB	Ca St	Non-phthalate	Applications	SIT (°C)	MP (°C)	
Random copolymer	ELTEX® P KS409	5	no	no	yes	yes	BOPP tenter	115	134
	ELTEX® P KS400	5	yes	yes	yes	yes	BOPP tenter	115	134
	ELTEX® P KS407	5	no	no	no	yes	BOPP - metallisation	115	134
	ELTEX® P KS407 HP	5	no	no	no	yes	BOPP - metallisation High speed	115	134
	ELTEX® P KS414	7,3	yes	yes	yes	yes	BOPP tenter	115	134
Terpolymer C2C3C4	ELTEX® P KS359	5	no	no	yes	yes	BOPP tenter	105	131
	ELTEX® P KS359 HP	6	no	no	yes	yes	BOPP tenter High speed	105	131
	ELTEX® P KS384	5	no	yes	yes	yes	BOPP tenter	105	131
	ELTEX® P KS383 HP	6	no	yes	yes	yes	BOPP tenter High speed	105	131
	ELTEX® P KS350	5	yes	yes	yes	yes	BOPP tenter	105	131
	ELTEX® P KS350 HP	6	yes	yes	yes	yes	BOPP - metallisation High speed	105	131
	ELTEX® P KS357	5	no	no	no	yes	BOPP - metallisation	105	131
	ELTEX® P KS357 HP	6	no	no	no	yes	BOPP - metallisation High speed	105	131
	ELTEX® P KS351	7,3	yes	yes	yes	yes	BOPP tenter / CPP	105	131
	ELTEX® P KS559 HP	6	no	no	yes	yes	BOPP tenter High speed	97	131
ELTEX® P KV353	9	no	yes	no	yes	BOPP (double bubble)	105	131	
C3C4 copolymer	ELTEX® P KS399	5	no	no	yes	yes	BOPP tenter	90	131
	ELTEX® P KS397	5	no	no	no	yes	BOPP - metallisation	90	131
	ELTEX® P KS689	5	no	no	yes	no	BOPP tenter	80	131
	ELTEX® P KS607	5	no	no	no	yes	BOPP - metallisation (extrusion/lamination)	120	145

Overview - INEOS PP Copolymers – film grades

		MFR (g/10min)	Slip	AB	Other	Non-phthalate	Applications	Production site					
								Sarrabe	Lillo	Geel	GMTH	Lavera	
Homopolymer	100-GD02	2	no	no	-	no	standard BOPP						x
	102-GF02	2	no	no	-	no	mini random - improved processability						x
	100-GD03	3	no	no		no	standard BOPP				x		x
	101-GB08	8	no	no	Ca St	no	standard CPP/BOPP				x		
	102-GD08	8	no	no	-	no	Metallisation CPP/BOPP				x		
	101-SA09	9	yes	no	Ca St	no	standard CPP				x		
	100-GA09	9	no	no	Ca St	no	standard CPP				x		
	100-GA12	12	no	no	Ca St	no	standard CPP				x		x
HCPP	HCS586	6,5	no	no	-	yes	High crystallinity CPP	x					
Random copolymer	200-GA02	2	no	no	-	no	Blown film			x			x
	200-NA02	2	no	no	Nucleated	no	Blown film			x			x
	200-CA02	2	no	no	Nucleated	no	Blown film						x
	240-NA02	1,5	no	no	Nucleated	no	Blown film			x	x		
	242-NA02	1,8	no	no	Nucleated	no	Blown film						x
Terpolymer C2C3C4	ELTEX® P KS357	5	no	no	-	yes	Medical (IV bags)		x				
	ELTEX® P KS351	7,3	yes	yes	Ca St, CR	yes	Cast film - SIT 105°C		x				
	ELTEX® P KV327	8	no	no	-	yes	Cast film - metallisation		x				
	ELTEX® P KV353	9	no	yes	-	yes	Cast film - SIT 105°C		x				
Impact copoly	ELTEX® P RF180	0,8	no	no	-	yes	Cast & blown films - SUP			x			
	400-GA03	2,5	no	no	-	no	Cast film			x			



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INEOS Olefins & Polymers Europe offers a full range of high value polyolefins solutions for market applications such as food and industrial packaging, pipe and automotive through dedicated sales, and technical service teams.

INEOS is a safe and environmentally responsible company. We are engaged in developing our sustainable agenda to improve our operations and to implement sustainable solutions for our customers. This includes products that offer lightweighting, energy efficiency, durability (extended lifetime) or conservation of resources. We care.

ECC EXCELLENCE
Our sustainable journey

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