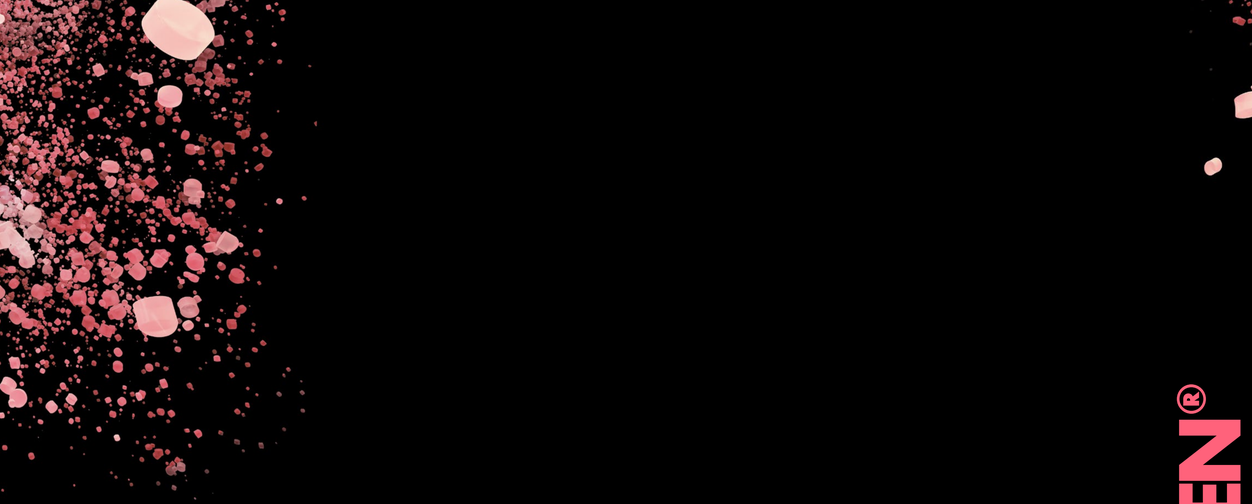

EXTRUSION GRADES

LITEN®

HDPE LITEN®

Product portfolio

INJECTION GRADES

HDPE LITEN®
INJECTION GRADES

HDPE LITEN[a]	COMONOMER	MFR 190 °C/ 2,16 KG	MFR 190 °C/ 5 KG	DENSITY	MOLDING SHRINKAGE (24 HR)		YIELD STRESS	YIELD STRAIN	FLEXURAL MODULUS	TENSILE MODULUS	CHARPY NIS		VST 10 N	ESCR F_{50}, 50 °C, 6 MPA, 10 %	FNCT 50 °C, 9 MPA, 2%	MAIN APPLICATION
											AT 23 °C	AT -30 °C				
		g/10 min		kg/m³	Parallel (%)	Normal (%)	MPa	%	MPa		kJ/m²		°C	h		
		ISO 1133-1		ISO 1183	ISO 294 -3.4		ISO 527-1.2		ISO 178	ISO 527-1.2	ISO 179-1		ISO 178	ISO 22088-2	ISO 16770	
Standard grades																
MB 53-200	C6	1.8	6	953			24	7	900	750	19	7	124	400*	120**	Bottle caps for carbonated beverages
RL 58 UV	C6	2.4	10	950	2.3	1.7	21	9	850	800	18	8	125	25	2	Lids for UN containers and drums
RL 58	C6	3.0	11	950	2.3	1.7	21	9	800	800	16	8	125	20	2	PET bottle caps, PEX compounds
ML 57	C6	4.3	12	952	2.2	1.7	22	10	850	850	11	5	125	12	1.5	Dust bins, Technical parts, Pallets
MS 57	C6	4.3	12	952	2.2	1.7	22	10	850	850	11	5	125	12	1.5	Dust bins, Technical parts, Pallets, Containers
ML 67	C6	6.5	18	954	2.1	1.9	22	9	900	900	7.5	5	126	8	1.5	Technical parts, Pallets, Containers
MB 68	C6	7.5	22	957	2.1	1.9	23	9	1000	900	7	5	126	5	1.0	Cartridges for adhesives, Technical parts
MB 71	-	8.0	25	963	2.1	1.8	25	9	1150	1000	6.5	5	127	3	0.8	Crates, Bins, Caps, Technical parts
ML 71	-	8.0	25	963	2.1	1.8	25	9	1150	1000	6.5	5	127	3	-	Crates, Bins, Caps, Technical parts
MB 87	C6	25	-	955	2.0	1.9	22	9	900	950	3.5	-	123	-	-	Houseware, Food containers, Pails, Closures, Pots
Transition grades																
MB 61	-	7.5	-	960	2.1	1.9	23	9	1000	800	6.5	-	125	-	-	Crates, Closures for non-pressure applications
MB 73	-	10	-	963	-	-	26	9	1100	1100	4.5	-	126	-	-	Houseware, Crates, Technical parts
MB 77	C6	16	-	960	-	-	23	9	1000	-	3.5	-	125	-	-	Houseware, Food containers, Pails, Closures, Pots

* ESCR 50 °C, 10 % Arkopal N100; ASTM D1693 B
** FNCT 50 °C, 4.5 MPa

HDPE LITEN®
EXTRUSION GRADES

HDPE LITEN[a]	MWD UNI/ BIMODAL	COMONOMER	MFR 190 °C/ 2,16 KG	MFR 190 °C/ 5 KG	MFR 190 °C/ 21,6 KG	DENSITY	YIELD STRESS	YIELD STRAIN	TENSILE MODULUS	FLEXURAL MODULUS	CHARPY NIS		VST 10 N	ESCR F_{50}, 50 °C, 100%	ESCR F_{50}, 50 °C, 10%	FNCT 50 °C, 9 MPA, 2%	FNCT 80 °C, 4 MPA, 2%	PROCESSING TECHNOLOGY	MAIN APPLICATION
											AT 23 °C	AT -30 °C							
			g/10 min			kg/m³	MPa	%	MPa		kJ/m²		°C	h					
			ISO 1133-1			ISO 1183	ISO 527-1.2			ISO 178	ISO 179-1		ISO 306	ASTM D1693		ISO 16770			
Blow moulding																			
BS 54-002	UM	C6	-	0.07	2.2	954	25	8	1000	1250	65	45	128	3000	200	20	-	Blow moulding / Extrusion	Large blow moulding, e.g., I-ring, Open-top drums, up to 5000 L, Technical sheets
BS 50-007	UM	C6	-	0.32	6.5	947	23	8	1000	1100	25	18	126	5000	1000	50	15	Blow moulding / Extrusion	IBC containers, up to 1000 L
BB 52-030	UM	C6	0.16	0.70	11	952	24	8	1000	1250	25	20	128	1000	200	15	-	Blow moulding / Extrusion	Containers and jerry cans, up to 60 L
BB 75	UM	C6	0.1	0.45	11	948	24	9	1000	1100	15	6	125	1000	400	45	20	Blow moulding / Extrusion	Technical sheets, containers up to 220 L
BB 85	UM	C6	0.17	0.85	17	952	26	9	1050	1200	12	5.5	125	500	300	15	-	Blow moulding / Extrusion	Technical sheets, containers up to 120 L
BB 54-030	BM	C6	0.30	1.20	21	954	25	7	1200	1300	13	5	126	3000	1000	25	-	Blow moulding / Extrusion	Containers up to 5 L, if melt accumulator, up to 25 L; non-pressure pipes
BB 58-030	BM	C6	0.30	1.20	23	958	26	7	1200	1400	12	5	127	500	200	6	-	Blow moulding / Extrusion	Containers up to 5 L, if melt accumulator, up to 25 L; non-pressure pipes
BB 61-060	UM	-	0.60	2.60	48	961	30	8	1300	1600	15	9	129	10	-	1.6	-	Blow moulding / Extrusion	Milk, water and fresh juice bottles, up to 1 L
Pipe extrusion																			
PL 62-005[b]	BM	C6	-	0.25	7	962	22	8	1100	1200	26	7	125	-	>6000	-	> 6000	Pressure pipe extrusion	PE 100 LS pressure pipes for water and gas, large diameters
PL 60-006[b]	BM	C6	-	0.26	8	960	22	8	1100	1200	35	9	125	-	>6000	-	> 8760	Pressure pipe extrusion	PE 100 RC pressure pipes for water and gas, up to DN 630 mm
Sheet & thick film extrusion																			
EB 49-006	BM	C6	-	0.30	8	949	22	8	900	1150	35	14	125	-	>6000	-	-	Sheet extrusion	Technical sheets with PE 100 quality
EB 52-005	BM	C6	-	0.3	8	950	22	8	1000	1150	30	10	125	-	>6000	-	-	Sheet extrusion	Technical sheets with PE 100 quality
VB 85	UM	C6	0.1	0.5	12	946	22	9	-	1000	14	5	124	1000	300	80	50	Sheet extrusion & Blow moulding	Technical sheets in construction industry, vessels up to 120 L
Film																			
FB 52-010	UM	C6	0.16	0.70	11	952	24	8	1000	1250	24	18	127	1000	200	15	-	Film extrusion	Thin packaging film, typically above 7 µm
FB 14	UM	C4	0.10	0.50	12	940	20	10	650	750	14	5	118	2000	-	50	15	Film extrusion	Blown food packaging film, typically above 10 µm
FB 75	UM	C6	0.1	0.45	11	948	24	9	1000	1100	15	6	125	2000	300	45	20	Film extrusion	Blown packaging film, typically above 7 µm
FB 85	UM	C6	0.17	0.85	17	952	25	9	1050	1150	12	5.5	125	600	-	15	-	Film extrusion	Blown food packaging film, typically above 10 µm
FB 25	UM	C4	0.15	0.80	18	950	24	10	600	1000	10	5	125	2000	500	10	-	Film extrusion	Blown food packaging film, typically above 15 µm
FB 24 / FL 24	UM	C4	0.20	1.00	20	938	17	10	650	700	14	5	115	400	-	50	-	Film extrusion	Blown packaging film, above 20 µm, Blends with PE-LLD & LD film
FB 85 F	UM	C6	0.30	1.40	30	954	27	9	-	1250	9	4	125	500	300	12	-	Film extrusion	Sheets and coat films for build. industry, Coextr. pack. films, Blends with PE-LLD & LD film
Textiles																			
TB 49-060	UM	C6	0.60	1.8	20	949	24	8	1000	1200	16	7	127	300	200	5	-	Tape extrusion	Tapes from cast and blown film, Nets and bags for fruit & vegetables, above 60 µm
LS 87	UM	C6	25	-	-	955	22	10	-	900	3.5	-	123	-	-	-	-	Spun bonding	Bi-component fibres using spunbond technology for hygiene

Notes: [a] Black pellets [b] Typical properties, not to be used as specification [c] Mechanical properties have been measured on standard compression moulded test specimens according to ISO 293, conditioned at room temperature according to ISO 291.