



H D P E L I T E N[®]

Product portfolio

INJECTION GRADES
EXTRUSION GRADES

LITEN[®] INJECTION GRADES

HDPE LITEN [®]	Comonomer	MFR 190 °C/ 2.16 kg	MFR 190 °C/ 5 kg	Density	Moulding Shrinkage		Yield Stress	Yield Strain	Flexural Modulus	Tensile Modulus	Charpy NIS		VST 10 N	ESCR F ₅₀ 55 °C, 6 MPa, 10 %	FNCT 50 °C, 9 MPa, 2 %	Main Application
		g/10 min	kg/m ³	Paralell (%)	Normal (%)	MPa	%	MPa	kJ/m ²	°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 INJECTION GRADES																
RL 58 UV	C6	2.4	10	950	2.3	1.7	20	9.5	850	800	17	8	125	25	2	Lids for UN containers and drums
RL 58	C6	3.0	11	950	2.3	1.7	21	9.5	850	800	15	6	125	20	2	Caps for PET bottles for carbonized beverages, PEX compounds
MB 57	C6	4.3	12	952	2.2	1.7	21	10	850	850	11	5	125	12	1.5	Dustbins, technical parts, sheets
ML 57	C6	4.3	12	952	2.2	1.7	22	10	850	850	11	5	125	12	1.5	Dustbins, technical parts, pallets
MS 57	C6	4.3	12	952	2.2	1.7	22	10	850	850	11	5	125	12	1.5	Dustbins, technical parts, pallets, containers
ML 50-400	C6	4.5	12	952	-	-	25	9	850	650	9	4.5	124	-	-	Crates, bins, caps, technical parts
ML 67	C6	6.5	18	954	2.1	1.9	22	9	900	900	7.5	5	125	8	1.5	Technical parts, pallets, containers
MB 68	C6	7.5	22	957	2.1	1.9	23	9	950	900	6.5	5	126	5	1.0	Cartridges for adhesives, technical parts
ML 60-800	C6	8.0	24	961	-	-	27	7	1050	950	5	4	127	5	-	Crates, bins, caps, 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	10	900	950	3.5	-	123	-	-	Houseware, food containers, buckets, closures, pots
TRANSITION INJECTION 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, toys, crates, technical parts
MB 77	C6	16	-	960	-	-	23	9	1000	-	3.5	-	125	-	-	Houseware, food containers, buckets, closures, pots

Notes: Mechanical properties have been measured on standard injection moulded test specimens according to ISO 294-1,2, conditioned at room temperature according to ISO 291.

LITEN[®] EXTRUSION GRADES

HDPE LITEN [®]	MWD ²⁾ uni/ bimodal	Comonomer	MFR	MFR	MFR	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
			190 °C/ 2.16 kg	190 °C/ 5 kg	190 °C/ 21.6 kg						at 23 °C	at -30 °C							
			g/10 min								kg/m ³	MPa							
			ISO 1133-1	ISO 1183	ISO 527-1,2			ISO 178	ISO 179-1	ISO 306	ASTM D1693 B			ISO 16770					
BLOW MOULDING AND EXTRUSION																			
BS 54-002	UM	C6	-	0.07	2.2	954	25	8	1000	1250	65	45	128	-	300	30	-	Blow moulding, extrusion	Large blow moulding, e.g., L-rings, open-top drums, up to 5000 L, technical sheets
BS 50-007	UM	C6	-	0.23	5	950	23	7	900	1050	25	20	124	-	-	40	-	Blow moulding, extrusion	IBC containers, up to 1000 L, technical sheets
BB 52-010	UM	C6	0.10	0.50	9	952	24	8	900	1200	22	18	127	-	200	-	-	Blow moulding, extrusion	Containers and jerry cans, up to 60 L, sheets
BB 75	UM	C6	0.10	0.52	12	950	24	9	1000	1100	15	5.5	124	-	300	50	35	extrusion	Construction sheets
BB 85	UM	C6	0.17	0.85	17	952	25	9	1050	1150	12	5.5	125	600	-	15	-	Blow moulding, extrusion	Technical sheets, containers up to 120 L
BB 54-030	BM	C6	0.30	1.20	21	954	25	7	1100	1300	13	5	126	1000	500	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	27	7	1200	1400	12	5	127	500	150	5	-	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	1450	1550	15	9	129	15	-	1.6	-	Blow moulding	Milk, water and fresh juice bottles, up to 1 L
PIPE EXTRUSION																			
PL 62-005 ¹⁾	BM	C6	-	0.25	7	962	22	9	1000	1100	25	7	123	-	1000	-	> 6000	Pressure pipe extrusion	Black PE 100 (LS) pressure pipes for water and gas, up to large diameters
PL 60-006 ¹⁾	BM	C6	-	0.26	8	960	22	9	1000	1100	38	11	123	-	1000	-	> 8760	Pressure pipe extrusion	Black PE 100 RC pressure pipes for water and gas, up to large diameters
XL 62-005 ¹⁾	BM	C6	-	0.25	7	962	22	9	-	1100	25	7	123	-	-	-	-	Non-pressure pipes, sheet extrusion	Black irrigation & drainage systems, pipe jacketing
XL 60-006 ¹⁾	BM	C6	-	0.30	8	960	22	9	-	1100	30	8	123	-	-	-	-	Non-pressure pipes, sheet extrusion	Black irrigation & drainage systems, pipe jacketing
SHEET & THICK FILM EXTRUSION																			
EB 49-006	BM	C6	-	0.30	8	950	22	9	900	1100	30	10	124	-	1000	-	-	Sheet extrusion	Natural technical sheets with PE 100 quality
EB 52-005	BM	C6	-	0.30	8	952	22	9	900	1100	30	10	124	-	1000	-	-	Sheet extrusion	Natural technical sheets with PE 100 quality
EB 43-013	UM	C6	0.10	0.43	8	943	20	9	700	900	20	7	121	-	-	-	-	Sheet extrusion	Construction sheets
VB 85	UM	C6	0.10	0.57	13	945	22	10	-	950	13	5	121	1000	250	100	60	Blow moulding, extrusion	Technical sheets, vessels up to 120 L
EB 39-014	UM	C6	0.14	0.65	12	939	18	11	-	700	25	5	116	-	-	-	> 700	Sheet extrusion	Environmental landfills, geomembranes, waterproof film
EL 50-014 ¹⁾	UM	C6	0.14	0.65	12	950	18	11	-	700	25	5	116	-	-	-	> 700	Sheet extrusion	Black environmental landfills, geomembranes, waterproof film
EB 55-020	UM	C6	0.20	1.0	22	955	27	9	1100	1250	15	12	127	50	-	3.5	-	Sheet extrusion, blow moulding	Technical sheets, containers up to 20 L
EB 51-025	BM	C6	0.25	1.0	22	951	25	6	800	1150	19	5	123	-	-	-	-	Non-pressure pipe extrusion	Corrugated pipes, extruded sheets
FILM EXTRUSION																			
FB 50-006	BM	C6	-	0.30	9	950	23	8	900	1100	24	7	124	-	1000	-	-	Film extrusion	Thin packaging film, typically above 5 µm
FB 14	UM	C4	0.10	0.50	12	940	20	10	650	750	14	5	118	-	-	50	35	Film extrusion	Blown food packaging film, typically above 10 µm
FB 15	UM	C4	0.10	0.50	12	946	22	10	900	950	13	6	123	-	-	50	35	Film extrusion	Blown food packaging film, typically above 7 µm
FB 25	UM	C4	0.15	0.80	18	950	24	10	600	1000	10	5	125	-	-	10	-	Film extrusion	Blown food packaging film, above 15 µm
FB 41-018 FL 41-018	UM	C6	0.18	0.85	16	941	19	11	650	750	18	5	118	-	-	76	-	Film extrusion	Blown packaging film, above 20 µm, blends with PE-LLD & LD film
FB/FL 24	UM	C4	0.20	1.00	20	938	17	10	650	700	14	5	115	-	-	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	600	-	12	-	Film extrusion	Sheets and cast films for construction, coextr. pack. films, blends with PE-LLD & LD film
TEXTILE EXTRUSION																			
TB 44-060	UM	C6	0.60	1.8	20	944	21	9	850	950	19	6	125	400	-	20	-	Tape extrusion	Tapes from cast and blown film, nets and bags for fruit & vegetables, above 60 µm
TB 49-060	UM	C6	0.60	1.8	20	949	24	8	700	1200	16	8	127	-	200	-	-	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	-	-	-	-	Spunbond	Bi-component fibres using spunbond technology for hygienic products

Notes: ¹⁾ Black pellets ²⁾ MWD = Molecular Weight Distribution
 Mechanical properties have been measured on compression moulded test specimens according to ISO 293, conditioned according to ISO 291.