



EXTRUSION GRADES

LITEN[®]

H D P E
L I T E N[®]

Product portfolio

INJECTION GRADES

LITEN® INJECTION GRADES

HDPE LITEN®	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 55 °C, 6 MPa, 10 %	FNCT 50 °C, 9 MPa, 2%	Main Application
		g/10 min	kg/m³		Paralell (%)	Normal (%)					at 23 °C	at -30 °C				
		ISO 1133-1	ISO 1183	ISO 294 -3.4	MPa	%	MPa	ISO 527-1.2	ISO 178	ISO 527-1.2	kJ/m²	°C	h			
STANDARD GRADES																
MB 53-200	C6	1.8	6	953			24	7	900	750	19	7	124	1000*	400**	Lids for UN containers and drums
RL 58 UV	C6	2.4	10	950	2.3	1.7	20	9.5	850	800	17	8	125	25	2	PET bottle caps, PEX compounds
RL 58	C6	3.0	11	950	2.3	1.7	21	9.5	850	800	15	6	125	20	2	Dust bins, Technical parts, Pallets
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, Containers
MS 57	C6	4.3	12	952	2.2	1.7	22	10	850	850	11	5	125	12	1.5	Technical parts, Pallets, Containers
ML 67	C6	6.5	18	954	2.1	1.9	22	9	900	900	7.5	5	125	8	1.5	Cartridges for adhesives, Technical parts
MB 68	C6	7.5	22	957	2.1	1.9	23	9	950	900	6.5	5	126	5	1.0	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	-	Houseware, Food containers, Pails, Closures, Pots
MB 87	C6	25	-	955	2.0	1.9	22	10	900	950	3.5	-	123	-	-	Crates, Closures for non-pressure applications
TRANSITION GRADES																
MB 61	-	7.5	-	960	2.1	1.9	23	9	1000	800	6.5	-	125	-	-	Houseware, Crates, Technical parts
MB 73	-	10	-	963	-	-	26	9	1100	1100	4.5	-	126	-	-	Houseware, Food containers, Pails, Closures, Pots
MB 77	C6	16	-	960	-	-	23	9	1000	-	3.5	-	125	-	-	Houseware, Food containers, Pails, Closures, Pots

* ESCR, 50 °C; 100 % Arkopal N100; ASTM D1693 B
** ESCR, 50 °C; 10 % Arkopal N100; ASTM D1693 B

LITEN® EXTRUSION GRADES

HDPE LITEN®	MWD uni/bimodal	Comonomer	MFR 190 °C/ 2 kg	MFR 190 °C/ 5 kg	MFR 190 °C/ 21 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
			g/10 min	kg/m³	at 23 °C						at -30 °C								
			ISO 1133-1	ISO 1183	ISO 179-1	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	300	20	-	Blow moulding, Extrusion	Large blow moulding, e.g., L-ring, Open-top drums, up to 5000 L, Technical sheets
BS 50-007	UM	C6	-	0.32	6.5	947	23	8	750	1050	23	15	125	5000	1000	50	15	Blow moulding	IBC containers, up to 1000 L
BB 52-010	UM	C6	0.16	0.70	11	952	24	8	1000	1250	24	18	127	1000	200	15	-	Blow moulding	Containers and jerry cans, up to 60 L
BB 85	UM	C6	0.17	0.85	17	952	25	9	1050	1150	12	5.5	125	600	-	15	-	Blow moulding	Sheets for welded vessels, Cast film for construction industry
BB 54-030	BM	C6	0.30	1.20	21	954	25	7	1100	1300	13	5	126	3000	1000	25	-	Blow moulding	Technical sheets, Containers up to 120 L
BB 58-030	BM	C6	0.30	1.20	23	958	27	7	1200	1450	12	5	127	500	200	5	-	Blow moulding	Containers up to 80 L, Technical parts, Boxes
BB 61-060	UM	-	0.60	2.60	48	961	30	8	1300	1600	15	9	129	10	-	1.6	-	Blow moulding	Containers up to 5 l, if melt accumulator, up to 25 l; non-pressure pipes
PIPE EXTRUSION																			
PL 62-005 ¹	BM	C6	-	0.25	7	962	22	9	1000	1100	25	7	123	-	>6000	-	> 6000	Pressure pipe extrusion	PE 100 LS pressure pipes for water and gas, large diameters
PL 60-006 ¹	BM	C6	-	0.26	8	960	22	9	1000	1100	38	11	123	-	>6000	-	> 8760	Pressure pipe extrusion	PE 100 RC pressure pipes for water and gas, large diameters
SHEET & THICK FILM EXTRUSION																			
EB 49-006	BM	C6	-	0.30	8	949	22	8	900	1150	33	14	124	-	>6000	-	-	Sheet extrusion	Technical sheets with PE 100 quality
EB 43-013	UM	C6	0.13	0.65	12.5	943	20	9	700	950	20	7	123	-	>4000	-	100	Sheet extrusion	Technical sheets with PE 100 quality
EB 39-014	UM	C6	0.14	0.65	12	939	18	9	600	700	20	6	118	-	-	-	-	Sheet extrusion, Geomembranes	Environmental landfills for construction industry
EL 50-014 ¹	UM	C6	0.14	0.65	12	950	18	9	00	700	20	6	118	-	-	-	-	Sheet extrusion, Geomembranes	Environmental landfills for construction industry
EB 55-020	UM	C6	0.20	0.9	20	955	24	9	900	1250	15	12	128	120	80	5	-	Sheet extrusion, Blow moulding	Technical sheets, Containers up to 20 L
EL 56-050 ¹	BM	C6	0.50	2.0	-	956	30	6	900	1000	12	5	128	-	>5000	-	-	jacketing	Wires and cables
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 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 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 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	-	-	-	-	Film extrusion	Blown packaging film, above 20 µm, Blends with PE-LLD & LD film
FB 24 / 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 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	700	1200	16	8	127	1000	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: ¹ Black pellets ² Typical properties, not to be used as specification ³ Mechanical properties have been measured on standard compression moulded test specimens according to ISO 293, conditioned at room temperature according to ISO 291.