

EXTRUSION GRADES

[®]
LITEN

H D P E
L I T E N[®]

Product portfolio

INJECTION GRADES

HDPE LITEN®

INJECTION GRADES

The table contains informative values of parameters that do not represent specifications of given grade.

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 ISO 1133-1	kg/m³ ISO 1183-1	Paralell (%) Normal (%) ISO 294 -3.4	MPa ISO 527-1.2	%	MPa ISO 178	MPa ISO 527-1.2	kJ/m² ISO 179-1	°C ISO 306	h ISO 22088-2	ISO 16770				
													AT 23 °C	AT -30 °C		
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	2.8	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	Bottle caps for carbonated beverages, 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

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HDPE LITEN®	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 ₁₀ 50 °C, 100%	ESCR F ₁₀ 50 °C, 10%	FNCT 50 °C, 9 MPA, 2%	FNCT 80 °C, 4 MPA, 2%	PROCESSING TECHNOLOGY	MAIN APPLICATION			
			g/10 min	kg/m³	MPa						%	MPa								kJ/m²	°C	h
Blow moulding & extrusion																						
BS 50-007	UM	C6	-	0.35	6.5	947	22	9	900	1100	22	10	126	5000	1000	50	15	Blow moulding / Extrusion	IBC containers, up to 1000 L			
BB 54-010	BM	C6	-	0.45	11	954	24	7	1100	1200	18	6	126	-	3000	80	-	Blow moulding / Extrusion	Medium-sized containers for detergents and chemicals, non-pressure pipes			
BB 52-010	UM	C6	0.16	0.60	11	952	24	9	1250	1250	24	18	128	600	150	10	-	Blow moulding / Extrusion	Containers and jerry cans, up to 60 L			
BB 75	UM	C6	0.10	0.45	11	948	24	9	1000	1050	15	5	125	2000	300	40	20	Blow moulding / Extrusion	Technical sheets, containers up to 220 L			
BB 85	UM	C6	0.17	0.85	17	952	25	9	1050	1150	12	5	125	500	300	15	-	Blow moulding / Extrusion	Technical sheets, containers up to 120 L			
BB 54-030	BM	C6	0.30	1.20	22	954	25	8	1200	1300	13	5	127	3000	1000	25	-	Blow moulding / Extrusion	Containers up to 5 L, if melt accumulator, up to 25 L; non-pressure pipes			
BB 56-040	UM	C6	0.4	1.6	30	956	26	7	1450	1400	14	7	129	-	25	1.6	-	Blow moulding / Extrusion	Non-pressure pipes, other extruded products			
BB 58-030	BM	C6	0.30	1.20	22	958	26	8	1300	1400	12	5	128	300	150	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	28	8	1600	1600	16	9	130	10	-	1.6	-	Blow moulding / Extrusion	Non-pressure pipes, milk, water and fresh juice bottles, up to 1 L			
Pipe extrusion																						
PL 62-005 ¹⁾	BM	C6	-	0.25	7	962	23	9	1100	1200	28	7	125	-	>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	23	9	1100	1200	30	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	9	1000	1150	32	10	125	-	>6000	-	-	Sheet extrusion	Technical sheets with PE 100 quality			
EH 49-006	BM	C6	-	0.30	8	949	22	9	1000	1150	32	10	125	-	>6000	>6000	>6000	Pressure pipe extrusion	Pressure pipes PE-RT, type II for high-voltage cables protection			
EB 52-005	BM	C6	-	0.25	7	950	22	9	1000	1150	32	10	125	-	>6000	>6000	>6000	Sheet extrusion	Technical sheets with PE 100 quality			
VB 85	UM	C6	0.10	0.50	12	946	22	9	-	950	14	5	123	1000	300	60	40	Sheet extrusion & Blow moulding	Technical sheets in construction industry, vessels up to 120 L			
Film																						
FB 14	UM	C4	0.10	0.50	12	940	20	10	650	750	14	5	118	2000	-	50	35	Film extrusion	Blown food packaging film, typically above 10 µm			
FB 75	UM	C6	0.10	0.45	11	948	24	9	1000	1050	15	5	125	2000	300	40	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	125	500	300	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	26	9	-	1200	8	4.5	125	500	250	10	-	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	1.80	20	949	23	9	1000	1100	16	7	128	300	150	6	-	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.