



EXTRUSION GRADES

LITEN<sup>®</sup>

HDPE  
LITEN<sup>®</sup>

Product portfolio

INJECTION GRADES

# LITEN® INJECTION GRADES

HDPE LITEN®	Comonomer	MFR 190 °C/ 2.16 kg	MFR 190 °C/ 5 kg	Density	Yield Stress	Yield Strain	Flexural Modulus	Tensile Modulus	Charpy NIS		VST 10 N	ESCR F <sub>50</sub> 55 °C, 6 MPa, 10 %	FNCT 50 °C, 9 MPa, 2%	Main Application
		at 23 °C							at -30 °C					
		g/10 min	kg/m <sup>3</sup>	MPa	%	MPa	kJ/m <sup>2</sup>	°C	h					
		ISO 1133-1	ISO 1183-1.2	ISO 527-1.2	ISO 178	ISO 527-1.2	ISO 179-1	ISO 178	ISO 22088-2	ISO 16770				
<b>STANDARD GRADES</b>														
RL 58 UV	C6	2.4	10	950	20	10	850	800	16	7	125	25	2	Lids for UN containers and drums
RL 58	C6	3.0	11	950	20	10	850	800	15	6	125	20	2	PET bottle caps, PEX compounds
MB 57	C6	4.3	12	952	22	10	850	850	10	5	125	12	1.5	Dust bins, Technical parts, Pallets
ML 57	C6	4.3	12	952	22	10	850	850	10	5	125	12	1.5	Dust bins, Technical parts, Pallets
MS 57	C6	4.3	12	952	22	10	850	850	10	5	125	12	1.5	Dust bins, Technical parts, Pallets, Containers
ML 67	C6	6.5	18	954	22	10	900	900	7.0	5	125	8	1.5	Technical parts, Pallets, Containers
MB 68	C6	7.5	22	957	23	9	950	850	6.5	5	127	5	1.0	Cartridges for adhesives, Technical parts
MB 71	-	8.0	25	963	25	9	1150	1000	6.5	5	127	3	0.8	Crates, Bins, Caps, Technical parts
ML 71	-	8.0	25	963	25	9	1150	1000	6.5	5	127	-	-	Crates, Bins, Caps, Technical parts
MB 87	C6	25	-	955	22	10	900	950	3.5	-	123	-	-	Houseware, Food containers, Pails, Closures, Pots
<b>TRANSITION GRADES</b>														
MB 61	-	7.5	-	960	24	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	24	9	1000	-	3.5	-	125	-	-	Houseware, Food containers, Pails, Closures, Pots

# LITEN® EXTRUSION GRADES

HDPE LITEN®	MWD unimodal/ 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 <sub>50</sub> 50 °C, 100%	ESCR F <sub>50</sub> 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/m <sup>3</sup>	MPa	%	MPa	kJ/m <sup>2</sup>	°C	h									
			ISO 1133-1	ISO 1183-1,2	ISO 527-1,2	ISO 178	ISO 527-1,2	ISO 178	ISO 179-1	ISO 306	ASTM D1693	ISO 16770							
<b>BLOW MOULDING</b>																			
BS 54-002	UM	C6	0.01	-	2.1	954	27	7	1150	1250	70	50	130	300	200	30	-	Blow moulding, Extrusion	Large blow moulding up to 5000 L, e.g., L-rings, Open-top drums, Technical sheets
BS 50-007	UM	C6	0.07	0.3	7	950	25	7	1050	1150	28	23	124	> 4000	1000	60	-	Blow moulding	IBC containers, up to 5000 L
BB 52-010	UM	C6	0.10	-	10	952	26	7	1000	1100	23	-	124	> 1000	130	-	-	Blow moulding	Containers and jerry cans, up to 60 L
BB 34	UM	C4	0.25	1.2	24	955	26	9	1100	1200	11	6	125	100	-	8	-	Blow moulding	Containers up to 80 L, Technical parts, Boxes
BB 58-030	BM	C6	0.30	1.1	23	958	29	9	1300	1400	12	6	127	3000	700	15	-	Blow moulding	Medium-sized containers for detergents and chemicals, up to 5 L, when using melt accumulators, up to 25 L
BB 61-060	UM	-	0.60	2.6	48	961	30	8	1450	1550	15	9	129	15	-	1.6	-	Blow moulding	Milk, water and fresh juice bottles, up to 1 L
<b>PIPE EXTRUSION</b>																			
PL 62-005 <sup>1)</sup>	BM	C6	0.05	0.25	8	962	25	9	1100	1200	26	8	124	> 6000	>6000	-	> 6000	Pressure pipe extrusion	PE 100 LS pressure pipes for water and gas, large diameters
PL 60-006 <sup>3)</sup>	BM	C6	0.06	0.26	7.8	960	25	9	1100	1200	38	11	123	> 6000	>6000	-	> 8760	Pressure pipe extrusion	PE 100 RC pressure pipes for water and gas, large diameters
<b>SHEET &amp; THICK FILM EXTRUSION</b>																			
EB 50-006	BM	C6	0.06	0.26	7.8	950	25	9	1100	1200	38	11	123	> 6000	>6000	-	> 6000	Sheet extrusion	Technical sheets with PE 100 quality
EB 52-005	BM	C6	0.05	0.25	8	952	25	9	1100	1200	26	8	124	> 6000	>6000	-	> 6000	Sheet extrusion	Technical sheets with PE 100 quality
EB 43-013	UM	C6	0.13	0.60	12	943	21	10	-	900	17	5	121	> 4000	-	80	65	Sheet extrusion	Sheets for welded vessels, Cast film for construction industry
EB 39-014	UM	C6	0.14	0.65	12	939	18	11	-	700	25	5	116	> 4000	-	-	> 700	Sheet extrusion, Geomembrane	Environmental landfills for construction industry
EL 50-014 <sup>3)</sup>	UM	C6	0.14	0.65	12	950	18	11	-	700	25	5	116	> 4000	-	-	> 700	Sheet extrusion, Geomembrane	Environmental landfills for construction industry
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 parts and sheets, Containers up to 20 L
EB 51-025	BM	C6	0.25	1.0	22	951	25	6	800	1150	19	5	123	> 4000	-	1100	-	Non-pressure pipe extrusion	Corrugated pipes, Sheet extrusion
<b>FILM</b>																			
FB 50-006	BM	C6	0.06	0.26	7.8	950	25	9	1100	1200	38	11	123	> 6000	>6000	-	> 6000	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	2000	-	50	35	Film extrusion	Blown food packaging film, typically above 7 µm
FB 15	UM	C4	0.10	0.50	12	946	22	10	900	950	13	6	123	2000	-	50	35	Film extrusion	Blown food packaging film, typically above 7 µm
FB 25	UM	C4	0.15	0.70	15	951	25	9	1000	1100	12	6	125	350	-	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	> 5000	-	76	-	Film extrusion	Blown packaging film, above 20 µm, Blends with PE-LLD & LD film
FB 24	UM	C4	0.20	1.0	20	936	17	10	650	600	14	5	114	350	-	50	-	Film extrusion	Blown packaging film, above 20 µm, Blends with PE-LLD & LD film
<b>TEXTILES</b>																			
TB 44-060	UM	C6	0.60	1.8	20	944	22	10	850	950	14	6	125	900	-	17	-	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: <sup>1)</sup> Black pellets <sup>2)</sup> Typical properties, not to be used as specification <sup>3)</sup> Mechanical properties have been measured on standard compression moulded test specimens according to ISO 293, conditioned at room temperature according to ISO 291.