

PE LITEN[®] BB 58-030

PRELIMINARY MATERIAL SPECIFICATION

PND 33-300 LINEAR POLYETHYLENE LITEN - PART 2

PE-HD FOR BLOW MOULDING

CHARACTERISTICS

LITEN BB 58-030 is a C6-copolymer with bimodal molecular weight distribution produced by using Innovene™ S technology. The grade exhibits good processability and an excellent balance among toughness, ESCR and impact strength. Typical application is manufacture of containers up to 5 l, in case of melt accumulator up to 25 l, suitable for food, as well as for household chemicals, detergents and pharma products.

HYGIENIC APPROVAL

LITEN BB 58-030 meets the hygienic requirements on materials and articles intended for contact with foodstuffs according to Regulation (EC) 1935/2004 of the European Parliament and of the Council, as well as according to Commission Regulation (EU) No 10/2011 including changes and additions.

Flammability according to EN 13501-1: class F

International designation ISO 17855-PE-HD,,B,57-D003

PRELIMINARY QUALITY PARAMETERS

PARAMETER	UNIT	VALUE	TEST METHOD
Melt flow rate (190 °C/2,16 kg)	g/10 min	0,23 - 0,35	ISO 1133-1
Melt flow rate (190 °C/5 kg)		1,2	
Melt flow rate ratio (21,6 kg/2,16 kg)	-	70 - 100	
Density (23 ± 0,1) °C	kg/m ³	955 - 960	ISO 1183-2
Volatile matter content	%	<0,1	EN 12099
Yellowness index	-	standard A	ASTM D 1925
Yield stress	MPa	30	ISO 527-1,2
Tensile modulus of elasticity		1300	
Flexural modulus of elasticity		1400	ISO 178
Charpy notched impact strength at 23 °C	kJ/m ²	12	ISO 179-1
at -30 °C		6	
Vicat softening temperature (10 N)	°C	127	ISO 306
ESCR F ₅₀ (50 °C; 100 %)	h	>3000	ASTM D 1693
ESCR F ₅₀ (50 °C; 10 %)		600	
FNCT (50 °C; 9 MPa; 2 %)		15	ISO 16770