

## MATERIAL SPECIFICATION

### HIGH DENSITY POLYETHYLENE FOR INJECTION MOULDING

### LITEN ML 71

#### *Characteristics*

LITEN ML 71 is a homopolymer with narrow molecular weight distribution and UV stabilization. Typical application is manufacture crates, technical parts and other products requiring high rigidity, good impact resistance and oxidation stability.

#### *Hygienic approval*

LITEN ML 71 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.

#### *ISO designation*

ISO 1872-PE,ML,62-D090

<i>Quality parameter</i>	<i>Unit</i>	<i>Values</i>	<i>Test method</i>
Melt Flow Rate (190/2,16)	g/10 min	7,2 - 9,2	ISO 1133-1
Melt Flow Rate Ratio (21,6 kg/2,16 kg)	-	20 - 30	
Density (23 ± 0,1) °C	kg/m <sup>3</sup>	min. 960	ISO 1183-2
Yellowness Index	standard	max. A	ASTM D 1925
Volatile Matter Content	%	max. 0,1	ISO 1269
Yield Stress	MPa	min. 23	ISO 527-1
Flexural Modulus of Elasticity	MPa	min. 950	ISO 178
Charpy Notched Impact Strength at 23 °C	kJ/m <sup>2</sup>	min. 5,5	ISO 179-1
Vicat Softening Temperature	°C	min. 125	ISO 306

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