

LITEN VB 33

Polyethylene
UNIPETROL RPA

Message:

LITEN VB 33 is a linear polyethylene, homopolymer with medium molecular weight distribution and basic stabilization. It is suitable for extrusion of sheets and profiles (also for subsequent processing by thermoforming) and for blow moulding of hollow objects up to 5 litres requiring good rigidity, such as bottles and packages for surface-inactive liquids. The grade can be used for production of toys.

LITEN VB 33 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.

General Information			
Features	Food Contact Acceptable		
	Good Stiffness		
	Homopolymer		
Uses	Bottles		
	Packaging		
	Profiles		
	Sheet		
	Toys		
Agency Ratings	EC 1935/2004		
	EU 10/2011		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.33	g/10 min	
190°C/21.6 kg	21	g/10 min	
190°C/5.0 kg	1.3	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 100% Detergent, F50)	10.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	27.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Flexural Modulus	1300	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	10	kJ/m ²	
23°C	18	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	126	°C	ISO 306

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