

LITEN VL 10

Polyethylene Copolymer

UNIPETROL RPA

Message:

LITEN VL 10 is a linear polyethylene, black copolymer with high resistance to UV radiation, intended for extrusion. It is suitable for manufacture of pipes for non-pressure applications, extrusion of sheets and profiles and for blow moulding of hollow objects. The products exhibit good rigidity, impact strength and excellent resistance to tensoactive substances.

LITEN VL 10 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			
Additive	Carbon Black (2%)		
Features	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	Good UV Resistance		
Uses	Piping		
	Profiles		
	Sheet		
Agency Ratings	EC 1935/2004		
	EU 10/2011		
Appearance	Black		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.070	g/10 min	
190°C/21.6 kg	11	g/10 min	
190°C/5.0 kg	0.42	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 100% Detergent, F50)	1000	hr	ASTM D1693
Carbon Black Content	2.4	%	ISO 6469
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	57		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	20.0	MPa	ISO 527-2
Tensile Strain (Yield)	7.0	%	ISO 527-2
Flexural Modulus	800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	4.0	kJ/m ²	
23°C	13	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	118	°C	ISO 306

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