

LITEN PL 10

Polyethylene Copolymer
UNIPETROL RPA

Message:

LITEN PL 10 is a black copolymer with UV stabilization, suitable for manufacture of pressure pipes for water supply, industrial and waste water systems and casing pipes. Pressure classification PE 80 according to ISO 12162. The grade can also be used for extrusion of sheets and profiles. LITEN PL 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%)		
	UV Stabilizer		
Features	Copolymer		
	Food Contact Acceptable		
	Good UV Resistance		
Uses	Piping		
Agency Ratings	EC 1935/2004		
	EU 10/2011		
	ISO 12162 PE 80		
Appearance	Black		
Forms	Pellets		
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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