



NABYLENE B.PE.2007.P

BLACK LDPE COMPOUND

Application: Drip irrigation tubes



PROPERTIES

PROPERTY	VALUE	UNIT	TEST METHOD
DENSITY	0.932±0.005	g/cm ³	ISO 1183
CARBON BLACK CONTENT	2.25±0.25	%	ASTM D1603
MFI*	0.5±0.1	g/10min	ISO 1133
TENSILE STRENGTH	>17	MPa	ASTM D638
MAX ELONGATION	MIN 600	%	ASTM D638
PRESSURE STRENGTH			
- IN 20° C & 7.8 MPA	>1	hour	ISO 8779
- IN 70 °C & 2.9 MPA	>100	hour	ISO 8779
- IN 80 °C & 2.5 MPA	>165	hour	ISO 4427
- IN 80 °C & 2 MPA	>1000	hour	ISO 4427
ESCR**	MIN 1000	hour	ASTM D1693
CARBON BLACK DISPERSION	<3	-	BS 2782 823 A
OIT	MIN 30	min	ASTM D3895

*Test conditions (2.160 Kg, 190° C)

**Test conditions (Condition B, Igepal 10%,F0)



SPECIFICATIONS

LDPE compound B.PE.2007.P contains 2.5% micronized carbon black with thermal stabilizers in order to increase its resistance against sunlight and high temperatures. The compound has a high resistance against ESCR.



PROCESSING CONDITIONS

The temperature of extruder should linearly increase from 160 to 200°C and adaptor and die temperatures are then adjusted on 210 - 220 °C.