HDPE PIPE EXTRUSION PE 100

PE2NT11-9

TU 2243-174-00203335-2007, rev.1-4

QUALITY SPECIFICATIONS			
№	Parameter	Unit	Standart
1	Density: at 23°C at 20°C	kg/m3	 954 - 960 956 - 962
2	Melt Flow Index at 190°C: at 21,6 kg at 5,0 kg	g/10 min	 5 - 7 min 0,1
3	MFI21,6/MFI2,16 ratio		100 - 170
4	Melt Flow Index (MFI 21,6) spread within one batch	%, max	+/-10
5	Tensile yield strenght	MPa, min	21
6	Elongation at break	%, min	500
7	Carbon black weight content	%	2,0 - 2,5
8	Volatile weight content	mg/kg, max	350
9	Carbon black distribution type		I - II
10	Thermal stability at 200°C	min., min	20
11	Slow propagation crack resistance at 80°C, with initial wall stress 4,6 MPa, (on pipe samples d110 mm with SDR 11 or d160 mm with SDR 11)	hrs, min	165 500
12	Gas component resistance at 80°C, with initial wall stress 2 MPa, (on pipe samples d32 mm with SDR 11)	hrs, min	20
13	Resistance to rapid crack propagation at 0°C, at maximum operating pressure exceeding 0,4 MPa 13.1 Small-scale method on pipe samples d110 mm with SDR 11, critical pressure pc 13.2 Full-scale method on pipe samples d160 mm with SDR 11, critical pressure pc	 MPa, min MPa, min	 MOP/2,4-0,072 MOPx1,5
14	Stability at constant internal pressure at 20°C on pipe samples d32 SDR 11 with initial stress 12.4 MPa 11.6 MPa	hrs, min	 100 2500
15	Lower confidence bound of the stress-rupture strenght, *σ* LCL	MPa	≥10