

Yield strength, at extension, MPa, not more than	-	26	-	-	-	-
Tensile strength, Mpa, not more than	-	30	-	-	-	-
Relative elongation at break,%,not more, than	-	750	-	-	-	-
Crack resistance, hour, not less, than	-	30	-	-	-	-

**(GOST/TU TU 2243-175-00203335-2007)**

Production method: One reactor process. Formulation of stabilization includes in the contents primary and secondary thermo stabilizers, as well as process additive, which provides improved processability of the material and appearance of articles.

Application: Compounds of low pressure polyethylene, bimodal type, PE2NT11-285D are designated to be used for production of pipes and connecting parts, including utilities and potable water supply, compounds for marking strips, articles by blow molding and for production of high strength films with thickness of 20 µm and more.

<b>MAIN QUALITY SPECIFICATIONS</b>	
	<b>GRADE</b>
	<b>PE2NT11-285D</b>
Density, g/cub. cm at 23°C at 20°C	<b>0.947-0.950 0.949-0.952</b>
Melt flow index at 190°C, load 21, 6 kgs, g/10 min	<b>5.0-9.0</b>
MFR21, 6/MFR 2, 16	<b>100-170</b>
Melt flow index range within one lot, % not more than	<b>+/-10</b>
Yield limit value at extension, MPa, not less than	<b>20</b>
Relative elongation at break, % not less than	<b>600</b>
Thermal stability at 200°C, min., not less than	<b>20</b>
Mass fraction of volatiles, mg/kg, not more	<b>450</b>
Odor and flavor of water extractions, value, not higher, than	<b>1</b>
Resistance to slow crack propagation at 80°C and initial stress in pipe wall 4,6 MPa (in pipe samples d32 mm with SDR 11) h. not less, than	<b>165</b>
Resistance to gas components at 80°C and initial stress in pipe wall 2 MPa (in pipe samples d32 mm with SDR 11) h. not less than	<b>20</b>
Resistance to quick crack propagation at 0° C at maximum operational pressure more than 0,4 MPa in pipe line (in pipe samples 110 mm of critical pressure pc (method S4), MPa, not less than	<b>MOP/2, 4-0,072</b>
Resistance at constant internal pressure at 20° C, at initial stress in pipe walls 12,4 MPa (in pipe samples d110 SDR 11) h. not less than	<b>100</b>
Resistance at constant internal pressure at 80° C, at initial stress in pipe walls 5,5 MPa (in pipe samples d110 SDR 11) h. not less than	<b>165</b>
Resistance at constant internal pressure at 80° C, at initial stress in pipe walls 5,0 MPa (in pipe samples d110 SDR 11) h. not less than	<b>165</b>

