

Product catalogue

Product information

Bimodal High Density Polyethylene, grade PE2NT11- 285 D

GOST/TU TU 2243-175-00203335-2007

Measuring unit: ton

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

Operational parameters: Transportation and storage in accordance with GOST 16338-85, GOST P 50838-95.

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 produced by blow moulding and for production of high strength films with thickness of 20 μ m and more.

Physical and chemical values

Order No	Value	Norm
1	Density, g/cub.cm at 23o C at 20o C	0, 947-0, 950 0, 949-0, 952
2	Melt flow index at 190o C, load 21, 6 kgs, g/10 min.	5, 0- 9, 0
3	MFR21, 6/MFR 2, 16	100-170
4	Melt flow index range within one lot, % not more than	+/- 10
5	Yield limit value at extension, MPa, not less than	20
6	Relative elongation at break, % not less, than	600
7	Thermal stability at 200 o C, min., not less than	20
8	Mass fraction of volatiles, mg/kg, not more	450
9	Odor and flavor of water extractions, value, not higher, than	1
10	Resistance to slow crack propagation at 80 o C and initial stress in pipe wall 4, 6 MPa (in pipe samples d32 mm with SDR 11) h. not less, than	165
11	Resistance to gas components at 80 o C and initial stress in pipe wall 2 MPa (in pipe samples d32 mm with SDR 11) h. not less than	20
12	Resistance to quick crack propagation at 0 o C at maximum operational pressure more than 0, 4 MPa in pipe line (in pipe samples 110 mm of critical pressure p_c (method S4), MPa, not less than	MOP/2, 4- 0, 072
13	Resistance at constant internal pressure at 20 o C, at initial stress in pipe walls 12, 4 MPa (in pipe samples d110 SDR 11) h. not less than	100
14	Resistance at constant internal pressure at 80 o C, at initial stress in pipe walls 5, 5 MPa (in pipe samples d110 SDR 11) h. not less than	165
15	Resistance at constant internal pressure at 80 o C, at initial stress in pipe walls , 5, 0 MPa (in pipe samples d110 SDR 11) h. not less than	165



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