LDPE

10803-020, 11503-070, 15313-003, 15813-020 grades GOST 16337-77, rev. 1-3

Production method: high pressure (low density) polyethylene is produced by high-pressure ethylene polymerization in tubular and stirred reactors with radical initiators.

Application: for production of bags, pipes, fittings, food-contacting articles, toys, films and film articles, shaped and linear articles etc.

	Parameter	Standard for the grade											
No.		10803-020			11503-070			15313-003			15813-020		
		ex. gr.	1st qr.	2nd gr.	ex. gr.	1st qr.	2nd gr.	ex. gr.	1st qr.	2nd gr.	ex. gr.	1st qr.	2nd gr.
1	Density, g/cm ³	0.9185±0.0015			0.9180±0.001			0.9205±0.0015			0.9190±0.002		
2	Melt flow index (nominal value with allowance), %, g/10 min.	2.0 ±10 2.0±15			7.0±15			0.3±30			2.0±25		
3	MeIt flow index spread within one batch, %, maximum	±5	±8	±12	±5	±10	±12	±6	±12	±15	±6	±12	±15
4	Number of inclusions, pcs, maximum	2	5	15	2	5	10	2	8	30	2	8	30
5	Tensile yield strength, Pa (kgf/cm ²), minimum	93x10⁵(95)			93x10⁵(95)			98x10⁵(95)			93x10⁵(95)		
6	Tensile stress at break, MPa, minimum	122x10 ⁵ (125)			98x10 ⁵ (100)			137x10 ⁵ (140)			113x10⁵(115)		
7	Elongation at break, %, minimum	550			450			600			600		
8	Crack propagation resistance, h, minimum	2			-			500			-		
9	Extractable substances, % wt, maximum: extra grade 1st and 2nd grade	0.9 1.1			1.2 1.2			0.4 0.6			0.4 0.6		
10	Film appearance testing: extra grade 1st grade 2nd grade	B B C			B B C			A or B B C			A or B B C		
11	Odor and taste of aqueous extracts, points, maximum	1			1			1			1		

Safety requirements, acceptance procedure, testing methods, packing, labelling and transportation are in accordance with GOST 16337-77. Packing: PE bags, special soft containers etc. Carriage: by all modes of transport in accordance with trans-



LDPE of 10803-020 grade is a prize-winner of «100 Best Goods of Russian» and «Best Goods of the Republic of Tatarstan» Contests (2011).

LDPE of 15313-003 grade is a prize-winner of «Best Goods of the Republic of Tatarstan» (2010).

LDPE of 11503-070 UUP grade is a prize-winner of «100 Best Goods of Russian» (2006, 2007) and «Best Goods of the Republic of Tatarstan» (2006, 2007) Contests. LDPE of 11503-070 grade is a prize-winner of «100 Best Goods of Russian» (2002) and prize-winner of «100 Best Goods of Russian» (2002). LDPE 11503-070 and 10803-020 grade are certified as per GOST R voluntary certification system.