

grade: 10803-020

**POLYETHYLENE OF HIGH PRESSURE  
(LOW DENSITY POLYETHYLENE LDPE)  
GOST 16337-77 REV. 1,2,3**

№	Characteristics	Standard			Actually
		Highest grade	grade 1	grade 2	
1	Density, g/cm <sup>3</sup>	0,9170 – 0,9220			Assurance
2	Meld flow index, g/10 min, with a tolerance	1,8-2,2	1,7-2,3	1,7-2,3	1,9
3	Melt Flow Index Range within the batch,%, max	±5	±8	±12	4
4	The number of inclusions, pieces, max	2	5	15	1
5	Resistance to cracking, hours, min	2			Assurance
6	Yield strength at tension, Pa (kgf/cm <sup>2</sup> ), min	93·10 <sup>5</sup> (95)			Assurance
7	Tensile strength, Pa (kgf/cm <sup>2</sup> ), min	122·10 <sup>5</sup> (125)			Assurance
8	Relative elongation at break,%, min		550		Assurance
9	Mass fraction of extractable substances,%, max	0,9	1,1	1,1	Assurance
10	The smell and taste of water extracts, the score, max	1	1	-	Assurance
11	Technological test for appearance of the film	B	B	C	Assurance
12*	Mass fraction of gray granules, %, max	-	-	0,1	-
13*	Mass fraction of oxidized granules, %, max	-	-	0,1	-

**Note:** \* - filled at presence of

**Use:** intended for the manufacture of products for industrial use, products that come into contact with food, toys, films and film products used in medicine (including the manufacturing of products approved for the packing of medicines), in agricultural activities.

**Fire and explosion hazards:** Combustible, when heated during processing to temperatures above 140 °C and at open flames, can form volatile products of thermodestruction containing organic acids, formaldehyde and acetaldehyde, carbon monoxide. At contact with open flames, polyethylene burns with smoky flame without an explosion. Suspended in the air dry dust and aerosol are explosive, friction of particles accumulate charges of static electricity.

**Transportation:** transported by all modes of transport in closed vehicles in accordance with the rules of carriage of goods, operating in this mode of transport. For sea transport paper bags are put into plastic bags. Allowed bulk transport by rail (model 17-495 (917)), tank-containers (GOST 26 380) and special and tank vehicles (Type K 104OE). Packaging is made in accordance with GOST 21 929, the size of the package is in accordance with GOST 24 597, fastening means are in accordance with GOST 21 650.

**Storage conditions:** Storage conditions - the temperature below 25 C, relative humidity 40 -80%. Store indoors preventing from direct sunlight, at least 1 m from heaters.

Before opening, bags with polyethylene should be kept in the production room for at least 12 hours.

**Waste Management:** The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with local regulations for hazardous wastes. Disposal can occur only in properly permitted facilities. Check state and local regulation of any additional requirements for disposal conditions.

**Guaranteed storage life**

3 years from date of manufacture.

Quality's controller engineer