

Low-density polyethylene 10803-020

PRODUCT DESCRIPTION

Polyethylene 10803-020 is an ethylene polymer obtained in autoclave reactors with a stirrer under high pressure and high temperature in the presence of a reaction initiator - organic peroxide compounds. Does not contain additives or dyes.

APPLICATION

Extruded and cast products for technical purposes, including agricultural products, blown products, films and film products (including hermetic packaging), products that come into contact with food products, toys, products approved for packaging and sealing of medicines.

Parameter name	Value			Test method
	Premium grade	First grade	Second grade	
Density, g/cm³	0.9185 ± 0.0015			GOST 15139, GOST 16337
Melt flow index, g/10 min	2.0 ± 0.2	2.0 ± 0,3		GOST 11645, GOST 16337
Melt flow index spread within a batch, %, no more	± 5	± 8	± 12	GOST 16337
Number of inclusions, pcs., no more	2	5	15	GOST 16337
Technological test for film appearance, no less	B		C	GOST 16337
Resistance to stress cracking, h, no less	2			GOST 13518, GOST 16337
Tensile yield strength, MPa, no less	9.3			GOST 11262, GOST 16337
Tear strength, MPa, no less	12.2			
Relative elongation at break, %, no less	550			
Mass fraction of extractable substances, %, no more	0.9	1.1		GOST 26393, GOST 16337
Smell and taste of aqueous extracts, points, not higher	1		Not standardized	GOST 22648 GOST 16337

GOST 16337-2022

HAZARD IDENTIFICATION

In terms of its impact on the human body, it is classified as a low-hazard substance. At room temperature, it does not emit toxic substances into the environment and does not have a harmful effect on the human body upon direct contact. The product aerosol is classified as a moderately hazardous substance in terms of its impact on the body and has weakly expressed irritating properties. A solid combustible substance with high smoke-forming capacity. Thermal decomposition products are toxic. May pollute environmental objects.

FORM OF PRODUCT	Granules of the same geometric shape, the size of the granules in any direction is from 2 to 5 mm.
PACKAGE	Polyethylene bags or special valve bags made of polymeric materials. Product weight in a bag is (25 ± 0.25) kg. It is allowed to pack bags on flat pallets using heat-shrinkable film; gross weight of a bag is up to 2 tons.
TRANSPORTATION AND STORAGE	Transported by all types of transport in covered vehicles that provide protection from contamination and loss, excluding moisture and direct sunlight, in accordance with the rules for the carriage of goods in force for this type of transport. Vehicles must be clean, dry, and odorless. Stored in a closed room, excluding direct sunlight and moisture, at a distance of at least 1 m from heating devices, at a temperature no higher than 25°C, relative humidity from 40 to 80%. Protect from sunlight. Protect from moisture.
GUARANTEE OF MANUFACTURER	The guaranteed shelf life is 3 years from the date of manufacture.

The information contained in this document is given according to our knowledge at the time of publication. It is the responsibility of the customer to test our products to determine their suitability for the intended application. The manufacturer does not accept liability for any loss/damage that may arise from the use of this information. UN number: none. Classification code: none.