

Low Density Polyethylene ROPOTEN® T

Specification

№	Property	Unit	Value by grade			Test method
			FV-03-223	FV-15-204	FV-20-205 FV-20-205-3	
1.	Melt flow rate at 190 °C and loading 2,16 kg min-max	g/10 min	0,20 – 0,40	1,10 – 1,90	1,80 – 2,60	ASTM D 1238 BDS EN ISO 1133
2.	Density at 23 °C min	kg/m³	919	919	919	BDS EN ISO 1183
3.	Tensile strength min	MPa	15,5	10,5	9,5	ASTM D 638 BDS EN ISO 527-1
4.	Relative elongation at break min	%	600	550	500	ASTM D 638 BDS EN ISO 527-1
5.	Haze max	%	–	14,0	11,0	ASTM D 1003
6.	Vicat softening point min	°C	90	–	–	ASTM D 1525
7.	Non-melting material max	piece	25	20	15	BDS 10086-82
8.	Off-spec granules max	%	1,7	1,7	1,7	BDS 10086-82
9.	Impurities in 200 g sample max	piece	5	5	10	BDS 10086-82
10.	Volatile compounds max	% (m/m)	0,07	0,07	0,07	BDS 10086-82
11.	Cold resistance max	°C	– 60	–	–	BDS 10086-82

Remark: Parameter “Cold resistance” is guaranteed by the manufacturer. It is determined periodically, at least on two lots per quarter.

Product description

Solid product in the form of granules with length ranging from 2 to 6 mm, natural colour, odourless. The product is stable in normal storage and handling conditions.

Application

Grades **FV-03-223**, **FV-15-204**, **FV-20-205** и **FV-20-205-3** are used for production of heavy duty industrial bags, for blow-moulded bottles, for agricultural film, film for building and machine-building applications, for production of toys, souvenirs, for production of thin film for small packages, etc.

Production method

Polymerization of ethylene in tubular reactors at high pressures and medium temperature in the presence of initiator – oxygen.

Packaging and marking

The product is packed in 25 kg polyethylene bags (milky white or natural colour). Each bag is marked with: product grade, lot number and date of production.

Storage

In dry, covered warehouse premises, protected from direct sunlight, away from all sources of heat. Open-air storage is possible for a short period of time.

Transportation

Covered, clean and dry vehicles, protected from moisture, mechanical damages and pollution.