



CERTIFICATE No. 23-2021
Synthetic ethylene propylene diene rubber EPDM
TS 2294-087-05766563-2010 with amend. 1-3

Grade	EPDM 90	OKPD 2 Code:	20.17.10.173
Batch No.	124	Date of issue/re-selection, analysis	21.11.2019/02.01.2021
Number of packages:	22	NET weight:	550 kg
Briquette numbers	23367-23388	Designation of the RD according to which the sample was taken GOST 27109	

Item No.	Indicators name	RD for test method	Norm according to TS	The actual value	
1.	Mooney viscosity MB 1+4 (100 °C), Mooney units, within	GOST 10722, TS 2294-087-05766563-2010 with amend. 1-3, item 5.3	86-95	92	
2.	Mass fraction of dicyclopentadiene units, %, within	TS 2294-087-05766563-2010 with amend. 1-3, MI-08-5-07-2019	4.0-7.2	5.0	
3.	Loss of mass on drying, %, maximum	TS 2294-087-05766563-2010 with amend. 1-3, item 5.5	0.7	0.1	
4.	Mass fraction of ash, %, maximum	TS 2294-087-05766563-2010 with amend. 1-3, item 5.6	0.2	0.04	
5.	Mass fraction of vanadium, %, maximum	TS 2294-087-05766563-2010 with amend. 1-3, MI-08-5-103-2019	0.008	0.003	
6.	Mass fraction of alcohol - toluene extract, %, maximum	TS 2294-087-05766563-2010 with amend. 1-3, item 5.8	4.0	1.3	
7.	The mass fraction of the antioxidant Irganox-1520L, %, minimum	TS 2294-087-05766563-2010 with amend. 1-3, MI-08-5-104-2019	0.10	0.25	
8.	Conditional tensile strength with technical carbon grade P-324 (GOST 7885), kgf/cm ² , minimum	GOST 270, TS 2294-087-05766563-2010 with amend. 1-3, item 5.10.3	190	242	
9.	Elongation at break, %, minimum		350	430	
10.	Viscosity spread within the batch, Mooney units, maximum	TS 2294-087-05766563-2010 with amend. 1-3, item 5.3.4	5	2	
11.	Mass fraction of propylene units, group 2, %, within	TS 2294-087-05766563-2010 with amend. 1-3, L-124-2014	1 Group	42-50	-
			2 Group	25-41	39

Conclusion: the product complies with TS 2294-087-05766563-2010 with amend. 1-3. The warranty period of storage is until 21.05.2021

The products are manufactured in accordance with the Management systems certified for compliance with the specifications of: An ISO 9001:2015 Certificate No. 31100600 QM15, ISO 14001:2015 Certificate No. 31100600 UM15, ISO 45001:2018 Certificate No. 31100600 OHS18.

Scope of Application:

designed for the manufacture of rubber products

Characteristics of fire and explosion hazard:

According to GOST 12.1.044, rubber belongs to the group of solid combustible materials with a high smoke-forming ability. In the process of production and processing, when rubber is heated above 230 °C, it is possible to release volatile products, including marginal (ethane, propane) and unsaturated (ethylene, propylene) hydrocarbons, carbon oxides. Upon contact with an open fire, it ignites without explosion and burns with a smoky flame with the formation of a melt and the release of the above-mentioned thermal degradation products.

Storage rules:

Store the material in paper bags with a polyethylene liner in a dry, ventilated room, excluding direct sunlight, at a distance of at least 1m from heating devices and at a temperature not higher than 30 °C:

- rubber packed in bags - in stacks no more than 1.2 m high;
- rubber packed in box pallets in stacks by 3-4 pallets in height.

Engineer of the laboratory for quality control of ethylene-propylene-rubber products of the Quality Management:

(power of attorney No. 82/21 dated 11.01.2021)

Certificate issue date: February 15, 2021

Transportation rules:

All types of transport are covered.

Type of shipment via railroad: carload. When transporting rubber packed in various types of bags in railway wagons, they are loaded into the car to full capacity without packaging.

When transporting rubber packed in box pallets in railway wagons, pallets are installed in 2-3 rows in height in accordance with the requirements of GOST 21650.

Neutralization, disposal, and burial of wastes: Waste unsuitable for recycling does not require neutralization, is subject to removal to places agreed with the bodies of the Ministry of Emergency Situations and Environmental Safety and the Federal Service for Supervision of Consumer Rights Protection and Human Welfare (Department of Rosпотребнадзор).

Signature E.F. Dmitrieva

Stamp here
Stamp: Quality department