450037, Russian Federation, Republic of Bashkortostan, Ufa city Laboratory of quality control of ethylene-propylene rubber production



CERTIFICATE No. 30-2021

Grade designation 90505

Synthetic ethylene propylene diene rubber EPDM-E TS 20.17.10-100-05766563-2019

15 2011,110 100 00,00000 2015							
Grade	EPDM-E-90 group 1,2	OKPD 2 Code	20.17.10.173				
Batch No.	150	Date of issue/re-selection, analysis	04.12.2019/06.01.2021				
Briquette quantity	74	NET weight:	1,850 kg				
Briquette numbers	25651-25724	The designation of the RD, according to which	h the sample of was selected GOST 27109				

Item	Indicators name		RD for test method	Norm according	The actual
No.				to TS	Value
			COST 10722	06.05	
	Mooney viscosity MB 1+4 (125 °C),		GOST 10722	86-95	88
	Mooney units, within (*)			*	
2.	Viscosity spread within the batch, Mooney units,		TS 20.17.10-100-05766563-2019 item 5.1.6	5	5
	maximum				
3	Mass fraction	Group 1	ASTM D 3900,	50-58	58
	ethylene units,	Group 2	TS 20.17.10-100-05766563-2019	59-68	-
	%, within	Group 3	item 5.2	69-78	-
4	Mass fraction	Group 1		1.0-3.0	-
	ethylidennorbornen,	Group 2	TS 20.17.10-100-05766563-2019	3.1-5.0	4.4
	%, within	Group 3	Appendix A	5.1-7.0	-
		Group 4		7.1-9.0	-
5	Loss of mass on drying, %, maximum		GOST 19338, TS 20.17.10-100-05766563-2019 item 5.4	0.7	0.1
6	Mass fraction of ash, %, maximum		GOST-19816.4, TS 20.17.10-100-05766563-2019 item 5.5	0.2	0.04
7	Mass fraction of vanadium, %, maximum		TS 20.17.10-100-05766563-2019 Appendix B	0.008	0.003
8	Mass fraction of alcohol - toluene extract,	%, maximum	GOST 19920.6, TS 20.17.10-100-05766563-2019 item 5.7	4.0	0.7
	The mass fraction of the antioxidant Irganominimum	x-1520L, %,	TS 20.17.10-100-05766563-2019 Appendix C	0.10	0.19
	Conditional tensile strength with carbon gr MPa, minimum	ade P-324,	GOST 270, TS 20.17.10-100-05766563-2019 item 5.9 Recipe No. 2	Not standardized, Definition required	12.3
11	Elongation at break, %, minimum		Recipe No. 2	1	380

^{*-} sample preparation as per ISO 1795 item 7.3.2.1.

Conclusion: the product corresponds to TS 20.17.10-100-05766563-2019. Warranty period of storage is until 04.06.2021

The products are manufactured in accordance with the Management systems certified for compliance with the specifications of: 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, its. 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

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 Rospotrebnadzor).

Signature E.F. Dmitrieva

Stamp here Stamp: Quality department