UFAORGSINTEZ PJSC

450037, Russian Federation, Republic of Bashkortostan, Ufa city Quality Division, Testing Center for Petrochemical Products, Raw Materials and Environmental Facilities Unique entry number in the Register of Accredited Entities No. RA.RU.21УΦ03 Laboratory of Quality Control of polypropylene production

CERTIFICATE No. <u>16-2022</u> (POLYPROPYLENE AND PROPYLENE COPOLYMERS) TS 2211-074-05766563-2015 as amended 1–3

 Grade
 01031Γ
 OKPD 2 Code
 20.16.51.110

 Batch No.
 16
 Net weight
 237.525 t

 Date of manufacture
 13.01.2022
 13.01.2022
 13.01.2022

 Test date
 13.01.2022-14.01.2022
 13.01.2022-14.01.2022
 13.01.2022-14.01.2022

Designation of the regulatory documentation (RD), according to which the sample was taken TS 2211-074-05766563-2015 as amended 1-3

Name of the indicator	RD for test method	Norm	Analysis result
			Analysis result
Melt flow rate (230 °C / 2.16 kg), g/10min	ASTM D 1238	from 2.8 to 3.3	3.0
The spread of the melt flow rate within the batch ¹ , %	TS 2211-074-05766563- 2015, cl. 5.5	not more than 10	0
Mass fraction of granules with a size of more than 5 to 8 mm and less than 2 mm, as vell as stuck together, provided that no more than three granules stick together, %	TS 2211 -074-05766563- 2015, cl. 1.2	not more than 3	0.8
Mass fraction of volatile substances, %	TS 2211-074-05766563- 2015, cl. 5.6	not more than 0,09	0.02
Resistance to thermo-oxidative aging at 150 °C as to formulation 207 g, hour	TS 2211-074-05766563- 2015, cl. 5.9	minimum 360	guarantee
Fensile yield point, MPa	ASTM D 638	minimum 32	33.5
Elongation at yield strength, %		minimum 11	13.9
Aodulus of flexibility, mPa	ASTM D 790	minimum 1,200	1,400
	he spread of the melt flow rate within the batch ¹ , % ass fraction of granules with a size of more than 5 to 8 mm and less than 2 mm, as ell as stuck together, provided that no more than three granules stick together, % ass fraction of volatile substances, % esistance to thermo-oxidative aging at 150 °C as to formulation 207 g, hour ensile yield point, MPa ongation at yield strength, %	correction TS 2211-074-05766563-2015, cl. 5.5 ass fraction of granules with a size of more than 5 to 8 mm and less than 2 mm, as TS 2211-074-05766563-2015, cl. 5.5 ell as stuck together, provided that no more than three granules stick together, % TS 2211-074-05766563-2015, cl. 5.2 ass fraction of volatile substances, % TS 2211-074-05766563-2015, cl. 5.6 esistance to thermo-oxidative aging at 150 °C as to formulation 207 g, hour TS 2211-074-05766563-2015, cl. 5.9 ensile yield point, MPa ASTM D 638	ne spread of the melt flow rate within the batch ¹ , % TS 2211-074-05766563- 2015, cl. 5.5 not more than 10 ass fraction of granules with a size of more than 5 to 8 mm and less than 2 mm, as ell as stuck together, provided that no more than three granules stick together, % TS 2211-074-05766563- 2015, cl. 1.2 not more than 3 ass fraction of volatile substances, % TS 2211-074-05766563- 2015, cl. 5.6 not more than 3 esistance to thermo-oxidative aging at 150 °C as to formulation 207 g, hour TS 2211-074-05766563- 2015, cl. 5.9 minimum 360 minimum 32 minimum 11

Note: 1) The indicator is determined by the calculation method.

Conclusion: the product complies with TS 2211-074-05766563-2015 as amended 1-3

Not subject to mandatory certification

The products are manufactured under the guidance of the Management Systems certified for compliance with the requirements: ISO 9001:2015 Certificate No. 31100600 QM15, ISO 50001:2018 Certificate No. 31100600 EMStl8, ISO 14001:2015 Certificate No. 31100600 UM15, ISO 45001:2018 Certificate No. 31100600 OHS18.

Scope of application: for biaxially oriented film, metallized film, products in contact with food, toys.

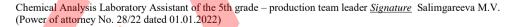
Characteristics of fire and explosion hazard: pelletized baleen as per GOST 12.1.044 is related to the group of solid combustible materials with high smokeproducing capacity. When baleen heating, during the processing up to temperature up to 150 °C, the formation of products of volatile thermal destruction, which contain as to GOST 12.3.030 acetic acid, formaldehyde, acetaldehyde, carbon oxide. Upon contact with an open fire, the baleen burns with a smoky flame without an explosion with the formation of a melt and the release of carbon dioxide, water vapor, unsaturated hydrocarbons and the above thermal destruction products. Air-borne dry dust of baleen is explosive; the particle friction results in accumulating the charge of static electricity.

Transportation rules: baleen is transported by all types of transport in covered vehicles in accordance with the rules of cargo transportation applicable to this type of transport. Baleen packed in bags, when loaded into containers according to GOST 15102 or GOST 20435, is transported in any means of transport. It is allowed, upon agreement with the consumer, to transport in bulk in railway cars and road pneumatic tanks.

Storage rules: baleen is stored in closed dry room while avoiding the exposure of direct sunlight at a distance of not less than 1 m from heating devices at a temperature not more than 30 °C and relative humidity not more than 80 %. Before opening, bags with polyethylene must be expressed in the production room for at least 12 hours. It is allowed to store the baleen at the consumer's for up to 30 days in the metallic storage drums installed on outdoor sites, which exclude moisture ingress and product contamination.

Neutralization, disposal, and burial of wastes: waste unsuitable for recycling does not require neutralization, and is subject to removal to places agreed with the bodies of the Ministry of Civil Defense, Emergencies and Disaster Relief and the Federal Service for Supervision of Consumer Rights Protection and Human Welfare (Division of the Federal Service for Supervision of Consumers Protection and Welfare (Rospotrebnadzor)).

Warranty period of storage: 3 years from the date of manufacture.



Date of passport registration: 14.01.2022

Stamp: Public Joint Stock Company UFAORGSINTEZ Quality Division 0/1