

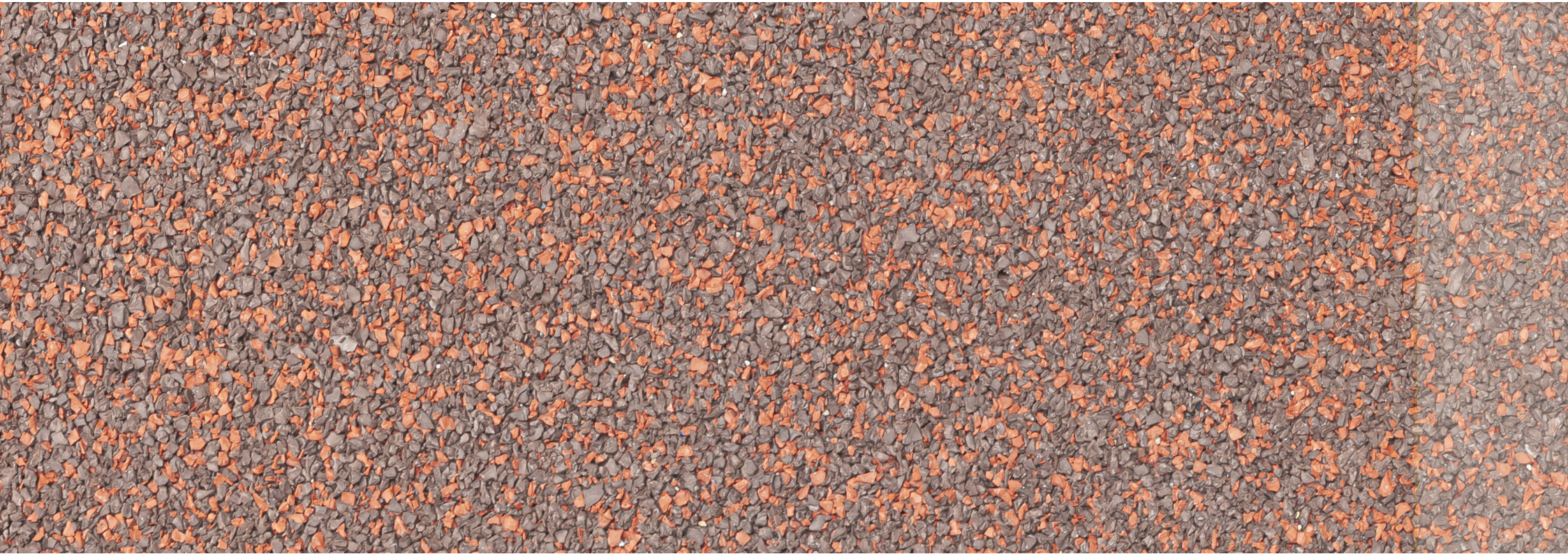
EPDM

(ethylene-propylene-diene monomer)

Specification TU* 2294-087-05766563-2010
EPDM 30, EPDM 40, EPDM 50, EPDM 70

Specification TU* 20.17.10-100-05766563-2019
EPDM - E (grades: 50, 60, 70, 80, 90, 100)

*TU - technical specifications



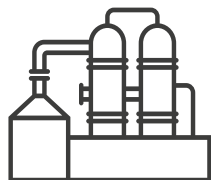
EPDM

(ethylene-propylene-diene monomer)

EPDM is a synthetic elastomer produced of ethylene, propylene and the third monomer, which is either 2-ethylidene-5-norbornene or dicyclopentadien

**4 000 tons
per annum**

**production
capacity**



**330 tons
per month**

**carload
shipment**



**12 months
per year**

**sales on a full
year basis**



*Public Joint-Stock Company "Ufaorgsintez"

Destination	Delivery tariff (rub/t, VAT included)
Moscow	3 000
Saint Petersburg	3 600

Calculation of tariffs performed on comprehensible tariff aggregator platforms available on the Internet



Transportation:



by truck



in 25 kg bales



on pallets

EPDM

(ethylene-propylene-diene monomer)

EPDM: Fields of Use

EPDM is widely used in construction field and automobile industry as a sealing and barrier material given its oxidation, impact and corrosion resistance qualities.

Front Door Sealing



Flooring Material



Roofing Material



Window Sealing



Insulation Material



Solar Thermal Collectors



Wet Areas Safety Floor



Artificial Pond Waterproof Material



Plastics Frost and Impact Resistance Compounds



Automobile Under Hood Space



EPDM

(ethylene-propylene-diene monomer)

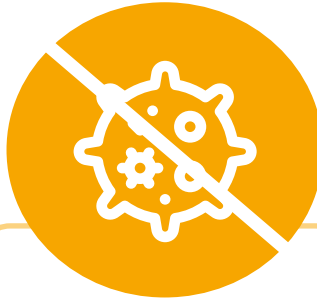
EPDM by UOS*: Advantages



Short distance to consumers



Competitive price



Biological impact resistance



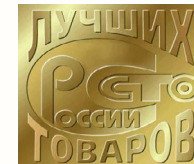
High ozone resistance



High heat and wear resistance



No rainwater drainage pollution



“100 best goods of Russia”
– award winner 2016, 2019, 2020



“Best Bashkortostan goods”
– award winner 2016, 2019, 2020



Products correspond to the global quality standards



“Quality leader” award granted to the producer PJSC “Ufaorgsintez” in 2018

EPDM

(ethylene-propylene-diene monomer)

Specification rates of EPDM grades with ENB

Properties		EPDM E-30	EPDM E-40	EPDM E-50	EPDM E-60	EPDM E-70	EPDM E-80	EPDM E-90	EPDM E-100	EPDM E-110	Test Method Standard
Mooney viscosity ML 1+4 (125°C), MU, in the range of		26-35	36-45	46-55	56-65	66-75	76-85	86-95	96-105	106-115	GOST 10722 ISO 289-1
Viscosity scatter within batch, MU, max.		5									
Ethylene content, wt, %, in the range of	Group 1	50-58									ASTM D 3900
	Group 2	59-68									
	Group 3	69-78									
ENB content, wt, %, in the range of	Group 1	1,0 - 3,0									ASTM D 6047 ISO 16565
	Group 2	3,1 - 5,0									
	Group 3	5,1 - 7,0									
	Group 4	7,1 - 9,0									
Weight loss after drying, %, max.		0,7									GOST 19338 ISO 248-2
Ash content, wt. %, max.		0,2									GOST 19816.4 ISO 247-1
Vanadium, wt. %, max.		0,008									MI-08-05-103-2018 YUL-313*
Alcohol-toluene extract content, wt. %, max.		4,0									GOST 19920.6
Antioxidant Irganox-1520L, wt. %, min		0,10									MI-08-05-104-2018 YUL-313*
Elongation at break, %, min.		Not rated, testing required									GOST 270 , ASTM 3568
Nominal tensile strenght with carbon black filling type П-324, kgf/cm ² , min.											

*test method reference standard established in the Russian Federation

Specification rates of EPDM grades with DCPD

Properties		EPDM-30	EPDM-40	EPDM-40 NT	EPDM-40 D	EPDM-50	EPDM-50 NT	EPDM-60	EPDM-70	EPDM-80	EPDM-90	Test Method Standard
Mooney viscosity ML 1+4 (100°C), MU, in the range of		26-35	36-45	36-45	36-45	46-55	46-55	56-65	66-75	76-85	85-95	GOST 10722; ISO 289-1
Viscosity scatter within batch, MU, max.		5										
Propylene content, wt. %, in the range of		42-50	42-50	46-55	42-50	42-50	46-50	42-55	42-50	42-50	42-50	L-124-2014*
DCPD, wt. %, in the range of		5,8-7,2	5,8-7,2	5,8-7,2	5,8-7,2	5,8-7,2	5,8-7,2	5,8-7,2	5,8-7,2	4,0-7,2	4,0-7,2	L-123-2014 ; MI 08-5-621-2019*; ASTM D 6047; ISO 16565
Weight loss after drying, %, max.		0,7										GOST 19338; ISO 248-2
Ash content, wt. %, max.		0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	GOST 19816.4 ISO 247-1
Vanadium, wt. %, max.		0,008	0,008	0,008	0,008	0,008	0,008	0,008	0,008	0,005	0,005	MI 08-5-103-2019*
Alcohol-toluene extract content, wt. %, max.		5,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	3,0	3,0	GOST 19920.6
Water-soluble ash content, wt. %, max		-	-	-	0,05	-	-	-	-	-	-	GOST 19816.4
Antioxidant wt. %, min	Irganox-1520L or equal	0,10	0,10	0,20	0,10	0,10	0,20	0,10	0,10	0,10	0,10	MI 08-5-104-2019*
	Naphtam-2, Agidol-2 or equal	0,15	0,15	0,30	0,15	0,15	0,30	0,15	0,15	0,15	0,15	GOST 19920.12 TU 2294-087-05766563-2010
Nominal tensile strength with carbon black filling type II-324 (GOST 7885), kgf/cm ² , min.		16,7	17,6	17,6	17,6	18,8	18,8	19,6	20,6	20,6	20,6	GOST 270
Elongation at break, %, min.		350										
Frost resistance according to elastic rebound, min.		-	-	0,3	-	-	0,3	-	-	-	-	GOST 13808

*test method reference standard established in the Russian Federation

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Quality certificates of all product range are available on the official website of Rosneft Company:

https://www.rosneft.com/business/Downstream/Sales_of_Petrochemical_products_and_LPG/Rubbers/