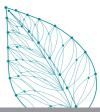




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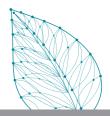




ISOPRENE RUBBER

GRADE	IR S	KI-3	
GRADE	GROUP I	GROUP II	
Mooney viscosity ML (1+4) 100 °C	76-85	67-76	
Ash content, wt %	≤ 0,6	≤ 0,6	
Stearic acid content, wt %	0,6-1,4	0,6-1,4	
Antioxidant type	staining	staining	
Modulus at 300%, MPa*	7,0	7,0	
Tensile strength, MPa*	≥ 27,5	≥ 27,0	
Elongation at break, %*	≥ 500	≥ 500	
Certificates	REACH		
APPLICATION	Tires and mechanical rubber goods		

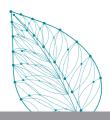
^{*}Test formulation according to ASTM 3403 Packaging: 30 kg bales wrapped in PE-film





BUTADIENE RUBBER

GRADE	BR-1203 Ti ¹	BR-1243 Nd ²	
Mooney viscosity ML (1+4) 100 °C	45±4	44±5	44±5
1,4-cis content, wt %	90	97	97
Polydispersity	-	medium	narrow
Antioxidant type	non staining	non staining	non staining
Modulus at 300%, MPa*	8,8	11,0	11,0
Tensile strength, MPa*	≥ 11,0	≥ 16,8	≥ 16,8
Elongation at break, %*	≥ 360	≥ 360	≥ 360
Certificates	REACH	REACH RoHS	
APPLICATION	Tires, industrial rubber goods and asbestos	Tires, conveyor belts and other rubber g	



^{*}Test formulation according to ASTM 3189

¹neodymium catalyst (Nd)

²titanium catalyst (Ti)

Packaging: 30 kg bales wrapped in PE-film



EMULSION STYRENE-BUTADIENE RUBBER 1/3

GRADE	SBR-1500	SBR-1502
Mooney viscosity ML (1+4) 100°C	51±5	53±5
Bound styrene content, wt %	23,5±1,0	23,5±1,0
Antioxidant type	non staining	non staining
Modulus at 300%, MPa*	13,0	13,0
Tensile strength, MPa*	≥ 22,5	≥ 22,5
Elogation at break, %*	≥ 420	≥ 420
Certificates	REA	CH
APPLICATION	Tires, rubber goods and	footwear production



^{*}Test formulation according to ASTM 3185 Packaging: 30 kg bales wrepped in PE-film

EMULSION STYRENE-BUTADIENE RUBBER 2/3

GRADE	SBR-1705 HI-AR	SBR-1705 TDAE	SBR-1712 HI-AR	SBR-1723 TDAE	
Mooney viscosity ML (1+4) 100°C	50±4	50±4	50±4	50±4	
Bound styrene content, wt %	23,5±1,5	23,5±1,5	23,5±1,5	23,5±1,5	
Oil type	HI-AR	TDAE	HI-AR	TDAE	
Oil content, wt %	14-17	14-17	25-29	25-29	
Modulus at 300%, MPa*	10,8	10,8	9,8	9,8	
Tensile strength, MPa*	≥ 21,6	≥ 21,6	≥ 18,0	≥ 18	
Elogation at break, %*	≥ 400	≥ 400	≥ 380	≥ 380	
Certificates	REACH**				

APPLICATION

Tires, general rubber goods and footwear

Packaging: 30 kg bales wrapped in PE-film

^{*}Test formulation according to ASTM 3185

^{**}TDAE

EMULSION STYRENE-BUTADIENE RUBBER 3/3

GRADE	SBR-170	05 HI-AR	SBR-1712 HI-AR		CDD 1500
UKADE	GROUP I	GROUP II	GROUP I	GROUP II	- SBR-1502
Mooney viscosity ML (1+4) 100°C	42±4	51±5	42±4	51±5	51±6
Bound $lpha$ -methylstyrene content, wt $\%$	21-24	21-24	21-24	21-24	21-24
Oil type	HI-AR	HI-AR	HI-AR	HI-AR	-
Oil content, wt %	14-17	14-17	25-29	25-29	-
Modulus at 300%, MPa*	9,8	9,8	9,8	9,8	9,8
Tensile strength, MPa*	> 21,0	≥ 21,6	> 21,0	≥ 21,6	> 22,0
Elogation at break, %*	> 400-650	> 400-650	> 400-650	> 400-650	> 400-650
Certificates			REACH**		

APPLICATION

Tires, general rubber goods and footwear



^{*}Test formulation according to ASTM 3185

^{**}TDAE, SBR-1502

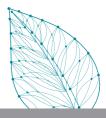
Packaging: 30 kg bales wrepped in PE-film



SOLUTION STYRENE-BUTADIENE RUBBER

GRADE	SSBR-2560	SSBR-2560 TDAE	SSBR-2560 TDAE HV	SSBR-4040 TDAE			
Mooney viscosity ML (1+4) 100 °C	65±4	50±4	60±4	50±4			
1,2-vinyl content, wt %	66±4	64±4	64±3	40±4			
Bound styrene content, wt %	25,0±2,0	25,0±1,0	25,0±2,0	39,0±2,0			
Oil type	-	TDAE	TDAE	TDAE			
Oil content, wt %	-	26-29	25-30	26-29			
Modulus at 300 %, MPa*	11,0	8,8	8,8	10,0			
Tensile strength, MPa*	> 18,0	≥ 15,0	≥ 15,0	≥ 16,0			
Elongation at break, %*	≥ 360	≥ 350	≥ 350	≥ 400			
Certificates		RE	ACH				
APPLICATION		High performance tire tread					

*Test formulation according to ASTM 3185 Packaging: 30 kg bales wrapped in PE-film





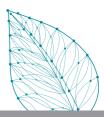
BUTYL RUBBER

GRADE	IIR-1675 GRADE M	IIR-1675
Mooney viscosity ML (1±8) 125°C	35-47	46-56
Unsaturation, mol %	1,4-1,8	1,4-1,8
Antioxidant type	non staining	non staining
Modulus at 300%, MPa*	≥ 6	≥ 6
Tensile strength, MPa*	≥ 13	≥ 13
Elogation at break, %*	≥ 450	≥ 450
Certificates	REACH, F	RoHS

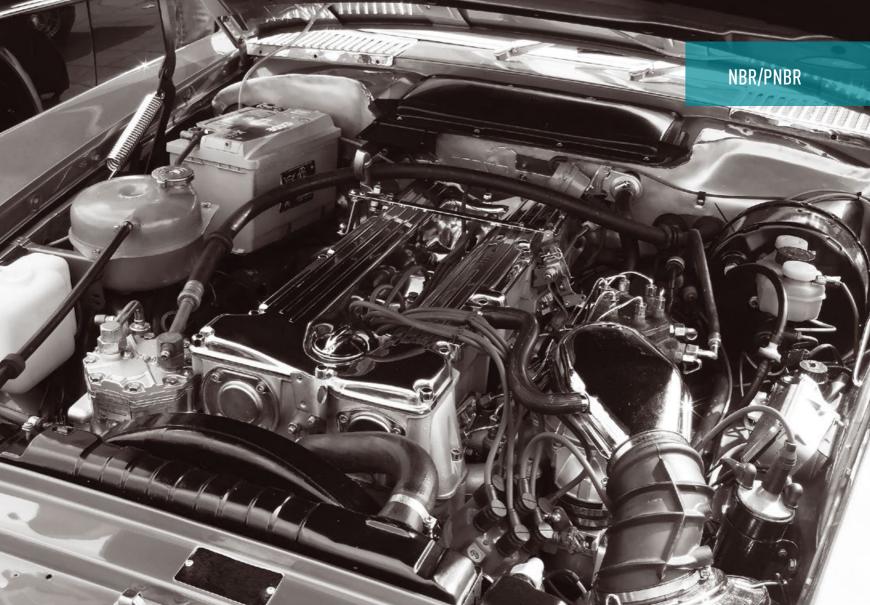
APPLICATION

Cables, adhesives, electric wires

Inner tubes, tire curing bladders, rubberized fabrics



^{*}Test formulation according to ASTM 3188 Packaging: 30 kg bales wrapped in PE-film or EVA-film



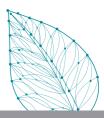
NITRILE RUBBER 1/3

GRADE	NBR 1845	NBR 1855	NBR 1865	NBR 2645	NBR 2665	NBR 2675
Mooney viscosity ML (1+4) 100 °C	45±3	55±3	65±3	45±3	65±3	75±3
Acrylonitrile content, wt %	17-20	17-20	17-20	27-30	27-30	27-30
Ash content, wt %	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5	< 0,5
Volatile matter, %	≤ 0,8	≤ 0,8	≤ 0,8	≤ 0,8	≤ 0,8	≤ 0,8
Modulus at 300%, MPa*	≥ 6,4	≥ 6,9	≥ 6,9	≥ 8,8	≥ 9,8	≥ 9,8
Tensile strength, MPa*	≥ 16,7	≥ 17,6	≥ 17,6	≥ 22,5	≥ 23,5	≥ 23,5
Elongation at break, %*	> 400	≥ 400	≥ 400	≥ 450	≥ 450	≥ 450
Certificates	REACH, RoHS, FDA					
Characteristics	Great combination of low temperature resistance and elasticity. Medium oil and fuel resistance. Operating temperature range: -60 °C to +120 °C					
APPLICATION	Automotive, cables, reinforced hoses, fuel and oil hoses, gaskets, seals, oil seals, packers, coatings, conveyor belts					

^{*}Test formulation according to ASTM 3187

NBR can be produced with Mooney Viscosity range from 35 to 120 and acrylonitrile content (ACN) from 18% to 40%

Packaging: 30 kg bales wrapped in PE-film or EVA-film



NITRILE RUBBER 2/3

GRADE	NBR 3345	NBR 3365	NBR 4045	NBR 4065	
Mooney viscosity ML (1+4) 100 °C	45±3	65±3	45±3	65±3	
Acrylonitrile content, wt %	31-35	31-35	36-40	36-40	
Ash content, wt %	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5	
Volatile matter, %	≤ 0,8	≤ 0,8	≤ 0,8	≤ 0,8	
Modulus at 300%, MPa*	≥ 8,8	≥ 9,8	≥ 11,8	≥ 11,8	
Tensile strength, MPa*	≥ 22,5	≥ 23,5	≥ 23,5	≥ 24,5	
Elongation at break, %*	≥ 450	≥ 450	≥ 450	≥ 450	
Certificates		REACH, Ro	oHS, FDA		
Characteristics	Maintains the balance between low temperature and oil resistance. Excellent oil and fuel, water, abrasion, heat resistance. Operating temperature range: -20 °C to +120 °C Highest oil and fuel, abrasion, heat resistance. Operating temperature range: -10 °C to +120 °C				
APPLICATION	Oil and fuel hoses, cables, hoses, reinforced hose for transfer oil, conveyor and driving belts, gaskets, oil seals, packers, shoe products, chemically blown sponge, industrial and automotive molded parts, glues				

^{*}Test formulation according to ASTM 3187

NBR grades are available in Mooney range from 35 to 120 and acrylonitrile content (ACN) from 18% to 40%

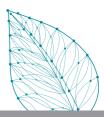
18 Packaging: 30 kg bales wrapped in PE-film or EVA-film

NITRILE RUBBER 3/3

GRADE	PNBR 1845**	PNBR 2645**	PNBR 3345**	PNBR 3355 CL***		
Mooney viscosity ML (1+4) 100 °C	45±5	45±5	55±5	55±5		
Acrylonitrile content, wt %	17-20	27-30	31-35	31-35		
Volatile matter, %	≤ 0,8	≤ 0,8	≤ 0,8	≤ 0,8		
Agglomeration index PVC	6-12					
Certificates	REACH, RoHS, FDA and FC EU					
Characteristics	Modifier in powder form. Improves oil, fuel and grease resistance impact modifier, acts as non-extractable plasticizer, provides excellent dimensional stability			NBR crosslinked improves quality of finished goods. Typically used in molded parts to provide sufficient molding forces and dimensional stability for extruded and calendared products		

APPLICATION

PVC modification — stretch PVC film, hoses, profiles, gaskets, wires and cables, adhesives



^{*}Test formulation according to ASTM 3187

^{**}NBR can be produced with Mooney Viscosity range from 35 to 120

^{***}NBR can be produced with Mooney Viscosity range from 35 to 85 and acrylonitrile content (ACN) from 26 to 40%. NBR Crosslinked can be produced in powder or bales. Packaging: 25 kg box



NITRILE RUBBER

GRADE	NBR26PVC 30 1 GROUP	NBR26PVC 30 2 GROUP	NBR 2675 FC	NBR 3335 FC	NBR 3345 FC
Mooney viscosity ML (1+4) 100 °C	50-65	66-80	75±3	35±3	45±3
Acrylonitrile content, wt %	28-32	27-30	27-30	31-35	31-35
Ash content, wt %	≤ 1,0	≤ 1,0	≤ 0,5	≤ 0,5	≤ 0,5
Volatile matter, %	≤ 0,8	€ 0,8	≤ 0,8	≤ 0,8	≤ 0,8
Modulus at 300%, MPa*	-	-	≥ 9,8	≥ 8,8	≥ 8,8
Tensile strength, MPa*	≥ 19,6	≥ 19,6	≥ 23,5	≥ 22,5	≥ 22,5
Elongation at break, %*	≥ 450	≥ 450	≥ 450	≥ 450	≥ 450
Certificates			REACH, RoHS		
Characteristics:	Exceptional resistance to ozone, adverse weather conditions and aggressive environments. Better vulcanizate mechanical properties. Requires less energy for processing, than mechanical blend NBR Fast Curing tailored for injection molding appl Improves the performance of injection molding equipment reduces mold fouling and wear			olding applications. nolding equipment, wear	
APPLICATION	Cables, seals, membranes, gaskets, packings, hoses, leatherette Automotive and industrial equipment, machinery, molded parts such as seals, membranes, dampers			ninery, molded rubber s, dampers	

^{*}Test formulation according to ASTM 3187

NBR can be produced with Mooney Viscosity range from 35 to 120 and acrylonitrile content (ACN) from 18 to 40%. Packaging: 30kg bales wrapped in PE-film or EVA-film



STYRENE-BUTADIENE-STYRENE BLOCK COPOLYMERS

GRADE	DST R 30-00	SBS R 30-00 A	DST L 30-01	SBS L 30-01 A	DST L 30-01 (SR)
Physical form	pellets, powder	pellets, powder	pellets, powder	pellets, powder	pellets, powder
Structure	radial	radial	linear	linear	linear high vinyl
Bound styrene content, wt %	30.0±1.5	30.0±1.5	30.0±1.5	30.0±1.5	30.0±1.5
Melt flow index, t=190 °C, P=5 kgs, g/10	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
Hardness Shore A	75	80	72	80	72
Tensile strength, MPa	≥ 8	≥ 8	≥ 14,7	≥ 14,7	≥ 14,7
Elongation at break, %	550	550	700	700	700
Certificates	REACH				
APPLICATION	Bitumen modification for roofing. Shoe compounds, adhesives, plastic modification, mastic, sealants		Bitumen modification for road paving, plastic modification, shoe compounds and adhesives		Bitumen modi- fication for road paving

Packing

Cardboard box with small bags, pallets with small bags 12-14 kg and soft bag-container (big bag) with total weight of 750-800 kg







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