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NBR-PVC Rubber-Plastic Blends

NV Series

Technical Data Sheet SZ 230715 -002 V: A/2

Description: NV series is a blend of nitrile rubber and PVC. The rubber compound is vulcanized with the vulcanizing agent is added (the vulcanizing agent is selected according to the process requirements).

Applications: NV rubber and plastic blend rubber has excellent properties such as oil resistance, Ozone resistance & excellent weather resistance, high strength and high hardness, so it is suitable for manufacturing oil pipes, rubber pipes, wires and cables, sheaths, belts, soles, rollers and other products.

Special properties:

- > Excellent abrasion & tear resistance
- > Excellent ozone & weather resistance
- > Excellent grease and solvent resistance
- Excellent antistatic property
- Good low temperature resistance
- > excellent in flame retardancy
- > Rapid calendering and extrusion and smooth surface
- > The storage stability is good

Characteristics

Product name	NV2355	NV3355A	NV5090	
Туре	NBR+PVC			
B-AN%	23	33	50	
ML 1+4@100℃	55 ± 10	55±10	90±5	
Color	Yellow	Light yellow	White	

Vulcanization performance:1. Sulfur, overspeed thiuram accelerators TMTD and TETD, and sulfenamide accelerators are added.

2.Accelerator CZ and thiazole accelerator DM were vulcanized at 170 °C@ 6 min.

Standard formula

	NV2355	NV3355A	NV5090	
Name of raw material	Basic copy, phr			
Rubber-plastic blend	100	80	100	
Nitrile rubber, N3350		20		
Carbon black reinforcing agent, N550	55	55	10	
Functional filler PF81	/	10	/	
Natural Gas Semi-Reinforcement, N770	/	/	55	
Silica, 136	5	10	1	
Plasticizer, Sanepar758	20	25	/	
Plasticizer, Sanepar756	/	/	30	
Zinc oxide, ZNO	5	5	5	



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Stearic acid, STA	earic acid, STA		1		1.5	1.5	
Antioxidant, RD			1		1	1	
Antioxidant, 4010 NA				1.5		1.5	1
Protective agent, paraffin				2		1	3
Internal release age	ent, 985P			1		1.5	/
Resin, HM601				2		/	/
Vulcanizing agent,	S-80			0.65		0.62	/
Vulcanizing agent,	MC-2			1		/	0.5
Accelerator, TMTD				1.2		1	0.9
Accelerator, DM				0.65		0.5	/
Accelerator, TETD				/		/	0.9
Accelerator, CZ				1.5		1.2	1.6
Product perform	nance: NBR + PVC	compou	nd and vu	Icanized rub	ber		
	Product name		N	V2355	NV3355A		NV5090
Project	Test method	Unit			Ту	pical value	
Mooney vis	cosity (ML 1+4@ 100	°C)		42		35	31
Sulfur change p	performance test:	180 ℃ ×	5min × 1a	rc			
Minimum torque		lb-in		0.38		0.25	0.21
Maximum torque	-	lb-in	4.78			4.77	5.64
Scorch time TS2	ASTM D2048	Sec		77		77	59
Optimum							
vulcanization time		Sec		114		116	111
TC90							
1. Mechanical p	1. Mechanical properties 1.1 175 $^\circ\!$						
Specific gravity	ASTM D297	g/cm3	1	1.201		1.249	1.226
Hardness (Shore A)	ASTM D2240	Points		65		65	55
Tearing strength		Kg/cm2	1	11.56		12.41	14.84
Elongation at	ASTM D412	%		441	561	650	
break	····· = ··· =						
M100		Kg/cm2		3.49		2.57	2.35
1. Mechanical properties 1.2 changes in properties after aging at 100 $^\circ\!{ m C}$ for 70 hours							
Hardness (Shore A) Change	ASTM D2240	Points		+8		+5	+5
Change in breaking strength	ASTM D412	%	-	-22.5		-15.4	-12.05
Change in elongation at break	ASTM D412	%	-	24.5		-20.75	-20.74



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2. Oil resistance 2.1 Performance change after aging in ASTM 901 oil at 100 ° C for 70 hours							
Hardness (Shore A) Change	ASTM D2240	Points	+5	+3	+2		
Change in breaking strength	ASTM D412	%	+5.75	+3.29	+1.07		
Change in elongation at break	ASTM D412	%	-20.78	-14.79	-9.87		
Change in volume change rate	ASTM D471	%	-10.24	-4.28	-2.08		
2. Oil resistance	2. Oil resistance 2.2 Performance change after aging in ASTM 903 oil at 100 ° C for 70 hours						
Hardness (Shore A)	ASTM D2240	Points	-9	-5	-3		
Tearing strength	ASTM D412	%	7.78	10.08	12.89		
Elongation at break	ASTM D412	%	324	478	579		
Volume change rate	ASTM D471	%	+25.8	+19.54	+14.78		
2. Performance change of oil-resistant 2.3 after aging in fuel C at 40 $^{\circ}\!{ m C}$ for 48 hours							
Volume change rate	ASTM D471	%	+38.89	+34.23	+30.69		
3. The compression permanent deformation is 100 $^{\circ}$ C for 70 hours (the vulcanization condition of the sample used in the experiment meets 170 $^{\circ}$ C × 10 min).							
Compression Set	ASTM D395	eets 170 %	39.74	40.79	45.34		
•					45.34		
4. Ozone resistance 80pphm × 20% elongation × 40 °C × 120 hours							
Whether it is cracked	ASTM D1171	1	No	No	No		
5. Low temperature	5. Low temperature retraction performance						
TR10	GB/T 7758	°C	-48	-42	-43		

Packing: NBR + PVC rubber and plastic blend shall be packed and transported in 25 kg/carton.

Storage and shelf life : NBR + PVC rubber and plastic blends in unopened original packaging at a temperature below 40 ° C from the date of production indicated on the packaging .Keep for 18 months from the date of expiration.

For More Product Information, Please Visit Our Website: www.sanezen.com

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