

NV Rubber

Technical Data Sheet

NV-7030

SX0325-2022-26 V2

Description: NV 7030 is a blend of nitrile rubber and PVC. After adding vulcanizing agent, the compound is vulcanized and formed (the vulcanizing agent is selected according to the process requirements).

Special properties:

- Calendering and pressing out are fast and the surface is smooth
- Good storage stability
- Excellent abrasion & tear resistance
- Ozone resistance & excellent weather resistance
- Excellent oil and solvent resistance
- Excellent antistatic property
- Excellent flame retardancy

Characteristics:

Type (according to GB/T 5576-1997) NBR+PVC.....NBR+PVC
 B-AN.....34%
 ML 1+4 @100℃.....60±10
 Volatile matter.....under 1.0%
 Natural color.....Black

Properties after working:

Sulfur (covered with 2% magnesium carbonate) and overspeed thiuram accelerator TMTD and subsulfonamide retarder CZ are added at 170 °C × Vulcanization under 6min.

Standard formula:

NV 7030	100
SRF, N774	60
DOP	20
ZNO	5
RD	1.0
SA	1.0
2%MgO ₃ Coated, Sulfur	0.5
CZ	1.5
TMTD(TT)	1

Mechanical properties: NBR + PVC compound and vulcanizate

Item	Test method	Unit	Measured value	Final value
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Mooney viscosity (ML 1+4@100℃)						52
Rheometer properties: ODR Rheometer170℃×12min×1arc						
Minimum torque	/	lb-in	2.84			2.84
Maximum torque	/	lb-in	23.07			23.07
Scorch time TS1	/	min	1.6			1.6
Optimum cure TC90	/	min	5.8			5.8
1、 Mechanical properties 1.1 Cured 170℃×6min						
Proportion	ASTM D297	g/cm³	1.172			1.172
Hardness	ASTM D2240	Points	79	80	80	80
Tensile Strength	ASTM D412	Kg/cm²	159	162	165	162
Elongation		%	478	472	470	472
M200		Kg/cm²	101	102	106	102
1、 Mechanical properties 1.2 Heat resistant air aging at 100℃×70hrs						
Hardness Change	ASTM D2240	Points	-4	-5	-6	-5
Tensile Change	ASTM D412	%	+0.28	+0.30	+0.31	+0.30
Elongation Change	ASTM D412	%	-17	-16.8	-17.5	-17
2、 Oil resistance 2.1 ASTM NO.1 Oil Immersion at 100℃×70h						
Hardness Change	ASTM D2240	Points	+5	+6	+6	+6
Tensile Change	ASTM D412	%	-0.93	-0.98	-0.98	-0.93
Elongation Change	ASTM D412	%	-26	-27	-27	-27
Volume Change	ASTM D471	%	-6.70	-6.87	-6.87	-6.87
2、 Oil resistance 2.2 ASTM NO.903 Oil Immersion at 100℃×70hrs						
Hardness change	ASTM D2240	Points	+4	+4	+5	+4
Tensile Change	ASTM D412	%	+1.85	+1.84	+1.85	+1.85
Elongation Change	ASTM D412	%	-15.1	-15	-15.2	-15
Volume Change	ASTM D471	%	+0.21	+0.20	+0.20	+0.20
2、 Oil resistance 2.3 Fuel C Immersion at 40℃×48hrs						
Volume Change	ASTM D471	%	+30.66	+30.65	+30.67	+30.66
3、 Compression set at 100℃×70hrs (The vulcanization condition of the sample used in the experiment is 170℃×10min)						
Deformation Rate	ASTM D395	%	46.10	46.00	45.98	46.00
4、 Static ozone resistance at 80pphm×20%elongation×40℃×120hrs						
Crack or No crack	ASTM D1171	/	No	No	No	No

Packaging: 25 kg per cardboard boxes.

Storage and shelf life:

NV 7030 may be stored in its original unopened packaging at a temperature below 40℃ for up to 18 months as from the date of manufacture marked clearly on the packaging.

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

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