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Data Sheet

Date Prepared: Feb 13, 2023.

SUPRENE® 501A

SUPRENE EPDM 501A is a low Mooney Viscosity and ENB type grade.
It shows excellent mill processability.
It has good flow and is suitable for molding complicated shaped products.
It is also suitable for extrusion of cable.

Main uses of SUPRENE EPDM 501A are found in gasket, roll, electric parts, various rubber coated fabrics and general industrial parts.
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Raw Polymer Properties

	Test Method	Unit	Min.	Max.	Typical Value
Mooney Viscosity, (ML 1+4, 100℃ unmilled)	ASTM D1646	-	42	50	46
Ethylene Content *	ASTM D3900	wt%	51	55	53
ENB Content	ASTM D6047	wt%	3.1	5.1	4.1
Oil Content	-	phr	-	-	-
Specific Gravity	ASTM D792	-	-	-	0.86
Volatile Matter	ASTM D5668	wt%	-	0.8	-
Ash	ASTM D5667	wt%	-	0.15	-
Physical Form, (kg/bale)	-	-	-	-	Dense Bale (25kg)

* Ethylene Content + Propylene Content = 100%

* After production date, shelf life time is 3 years. And we recommend this product should be stored dry and at temperature < 30 °C. Exposure to light has to be avoided.

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SK geo centric

SUPRENE® 501A

Typical properties

Properties	Test Method	S501A
Mooney viscosity ML1+4 @ 100℃	ASTM D1646	46.0
Ethylene Content,wt%	ASTM D3900	53.0
ENB Content,wt%	ASTM D6047	4.1

Guide Formulation

	Formulation
S501A	100
FEF(N550)	70
P-6	30
ZnO	5
S/A	1
DM	1
TT	0.7
BZ	0.5
S	1.5
Total	**209.7**

**Unit：phr*

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Cured at 160℃ for 20 min

Properties	Test Method	S501A
Compound Mooney Viscosity	ASTM D1646	
ML 1+4 @ 100℃		47.9
Pre-vulcanization characteristics	ASTM D1646	
Large Rotor at 125℃		
Minimum (Vm)		28
t'5 (min)		15.48
t'35 (min)		24.47
Rotorless Cure Meter(MDR)	ASTM D5289	
ML (lb-in)		1.09
MH (lb-in)		18.13
ts2 (min)		2.62
tc50 (min)		4.08
tc90 (min)		10.07

Properties	Test Method	S501A
Specific Gravity	ASTM D792	1.090
Hardness（shore A）	ASTM D2240	69
Tensile Strength (kgf/cm^2)	ASTM D412	125
Elongation (kgf/cm^2)	ASTM D412	383
100% Modulus (kgf/cm^2)	ASTM D412	36
200% Modulus (kgf/cm^2)	ASTM D412	68
300% Modulus (kgf/cm^2)	ASTM D412	100

Compression Set (25% Compressed)

Properties	Test Method	S501A
C.Set(%)	ASTM D395	
at 70℃ for 22 hrs		20

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