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SK global chemical

Data Sheet

Date Prepared: Jan 05, 2023.

SUPRENE® 505A

SUPRENE EPDM 505A has lower Mooney viscosity than SUPRENE EPDM 505, and its mill processability is further improved.

It is Possible to mold with SUPRENE EPDM 505A various molded products within a short time because of its fast cure rate.

When SUPRENE EPDM 505A blended with diene type rubber, its dispersion is excellent.

It can also be used more effectively by taking advantage of good ozone resistances.

SUPRENE EPDM 505A is suitable for sponge made by continuous curing. Low density sponge can be obtained through the curing.
It can also be used in various applications such as automotive tires, rubber coated fabrics, and automotive parts.

Raw Polymer Properties

	Test Method	Unit	Min.	Max.	Typical Value
Mooney Viscosity, (ML 1+4, 100℃ unmilled)	ASTM D1646	-	41	49	45
Ethylene Content *	ASTM D3900	wt%	53	57	55
ENB Content	ASTM D6047	wt%	8.4	10.4	9.4
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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SUPRENE® 505A

Typical properties

Properties	Test Method	S505A
Mooney viscosity ML1+4 @ 100℃	ASTM D1646	45.0
Ethylene Content,wt%	ASTM D3900	55.0
ENB Content,wt%	ASTM D6047	9.4

Guide Formulation

	Formulation
S505A	100
FEF(N550)	80
P-6	45
ZnO	5
S/A	1
DM	1
TT	0.5
TRA	0.5
BZ	2
S	1.5
Total	**235.5**

**Unit：phr*

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Cured at 160℃ for 20 min

Properties	Test Method	S505A
Compound Mooney Viscosity	ASTM D1646	
ML 1+4 @ 100℃		31.1
Pre-vulcanization characteristics	ASTM D1646	
Large Rotor at 125℃		
Minimum (Vm)		19
t'5 (min)		9.27
t'35 (min)		17.32
Rotorless Cure Meter(MDR)	ASTM D5289	
ML (lb-in)		0.82
MH (lb-in)		19.75
ts2 (min)		1.56
tc50 (min)		2.68
tc90 (min)		8.90

Properties	Test Method	S505A
Specific Gravity	ASTM D792	1.103
Hardness（shore A）	ASTM D2240	70
Tensile Strength (kgf/cm^2)	ASTM D412	98
Elongation (kgf/cm^2)	ASTM D412	227
100% Modulus (kgf/cm^2)	ASTM D412	46
200% Modulus (kgf/cm^2)	ASTM D412	89

Compression Set (25% Compressed)

Properties	Test Method	S505A
C.Set(%)	ASTM D395	
at 70℃ for 22 hrs		10.6

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