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SK geo centric

Data Sheet

Date Prepared: Feb. 13, 2023.

SUPRENE® 7486F

SUPRENE EPDM 7486F is a non-oil extended grade with very high Mooney viscosity and extra high ENB content.

SUPRENE EPDM 7486F shows excellent extrusion processability and its moderate ethylene content gives this grade a better flexibility under low temperature, compared with high ethylene grades. Especially, fast curing is possible with this grade because of its very high ENB content.

SUPRENE EPDM 7486F is suitable for sponge made by continuous curing such as window seal, body seal for automotives and adiabatic sponge.

Raw Polymer Properties

	Test Method	Unit	Min.	Max.	Typical Value
Mooney Viscosity, (ML 1+4, 150℃ unmilled)	ASTM D1646	-	63.0	71.0	67.0
Ethylene Content	ASTM D3900	wt%	58	62	60
Diene Content	ASTM D6047	wt%	8.0	10.0	9.0
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)	-	-	-	-	Friable 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 ℃.

Exposure to light has to be avoided.

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SUPRENE® 7486F

Typical properties

Properties	Test Method	S7486F
Mooney viscosity ML1+4 @ 150℃	ASTM D1646	67.0
Ethylene Content,wt%	ASTM D3900	60.0
ENB Content,wt%	ASTM D6047	9.0

Guide Formulation

	Formulation
S7486F	100
FEF（N550）	95
$CaCO_3$	60
2280 Oil	66.5
ZnO	7
S/A	1.25
PEG-4000	1.5
FL	1
M	0.8
TT	0.4
BZ	0.85
DTDM Vulnoc-R	0.6
TDEC	0.25
EZ	0.25
S	1.2
OBSH	2.15
AC330	0.55
CaO	5
Total	**344.3**

**Unit：phr*

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Cured at 160℃ for 20 min

Properties	Test Method	S7486F
Compound Mooney Viscosity	ASTM D1646	
ML 1+4 @ 100℃		72.8
Pre-vulcanization characteristics	ASTM D1646	
Large Rotor at 125℃		
Minimum (Vm)		58
t'5 (min)		2.51
t'35 (min)		3.29
Rotorless Cure Meter(MDR)	ASTM D5289	
ML (lb-in)		0.42
MH (lb-in)		17.97
ts2 (min)		0.42
tc10 (min)		0.39
tc50 (min)		1.47
tc90 (min)		8.84

Properties	Test Method	S7486F
Hardness（shore A）	ASTM D2240	68
Tensile Strength (kgf/cm^2)	ASTM D412	93.7
Elongation (kgf/cm^2)	ASTM D412	281.5
100% Modulus (kgf/cm^2)	ASTM D412	33.3
200% Modulus (kgf/cm^2)	ASTM D412	67.0

Compression Set (25% Compressed)

Properties	Test Method	S7486F
C.Set(%)	ASTM D395	
at 70℃ for 22 hrs		13.3
at 120℃ for 22 hrs		53.1

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