Acran Boğaziçi Kimya A.Ş.
Bahçeşehir 1. Kısım Mh. Bülbül Cd. No: 39 Başakşehir / İstanbul
info@acran.com.tr | www.acran.com.tr | + 90 212 659 94 37

SK geo centric

Data Sheet

Date Prepared: Feb 13, 2023.

SUPRENE® 552-1

SUPRENE EPDM 552-1 has high Mooney viscosity with higher ENB Content than SUPRENE S552, cure rate is faster and elastic property is further improved.

SUPRENE EPDM 552-1 shows excellent extrusion processability and physical properties with high loading fillers.
Its good green strength can give better shape retention and higher extrudability.

SUPRENE EPDM 552-1 is mainly used in automotive exterior parts such as window seal and used in other various applications.
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Raw Polymer Properties

	Test Method	Unit	Min.	Max.	Typical Value
Mooney Viscosity, (ML 1+4, 125℃ unmilled)	ASTM D1646	-	80	88	84
Ethylene Content *	ASTM D3900	wt%	56	60	58
ENB Content	ASTM D6047	wt%	4.7	6.7	5.7
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® 552-1

Typical properties

Properties	Test Method	S552-1
Mooney viscosity ML1+4 @ 125℃	ASTM D1646	84.0
Ethylene Content,wt%	ASTM D3900	59.0
ENB Content,wt%	ASTM D6047	5.7

Guide Formulation

	Formulation
S552-1	100
FEF(N550)	220
$CaCO_3$	30
P-6	162
ZnO	5
S/A	1
M	1.2
TT	0.5
TRA	1
BZ	1
S	1.5
Total	**523.2**

**Unit：phr*

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Cured at 160℃ for 20 min

Properties	Test Method	S552-1
Compound Mooney Viscosity	ASTM D1646	
ML 1+4 @ 100℃		48.9
Pre-vulcanization characteristics	ASTM D1646	
Large Rotor at 125℃		
Minimum (Vm)		33
t'5 (min)		7.6
t'35 (min)		11.24
Rotorless Cure Meter(MDR)	ASTM D5289	
ML (lb-in)		1.21
MH (lb-in)		12.98
ts2 (min)		1.77
tc50 (min)		3.4
tc90 (min)		12.6

Properties	Test Method	S552-1
Specific Gravity	ASTM D792	1.226
Hardness（shore A）	ASTM D2240	71
Tensile Strength (kgf/cm^2)	ASTM D412	82
Elongation (kgf/cm^2)	ASTM D412	277
100% Modulus (kgf/cm^2)	ASTM D412	41
200% Modulus (kgf/cm^2)	ASTM D412	66

Compression Set (25% Compressed)

Properties	Test Method	S552-1
C.Set(%)	ASTM D395	
at 70℃ for 22 hrs		26

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