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

SUPRENE EPDM 552 has high Mooney viscosity with fast curing.

SUPRENE EPDM 552 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 is mainly used in automotive exterior parts such as window seal and used in other various applications.
.

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%	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.

The information above is believed to be accurate and represents the best information currently available to us. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to SK Global Chemical's standard terms and conditions of sale, copies of which are available upon request and which are part of SK Global Chemical's invoices and/or order acknowledgments. Except as expressly provided in SK Global Chemical's standard terms and conditions of sale, SK Global Chemical and its affiliates make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and SK Global Chemical and its affiliates assume no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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

SUPRENE® 552

Typical properties

Properties	Test Method	S552
Mooney viscosity ML1+4 @ 125℃	ASTM D1646	84.0
Ethylene Content,wt%	ASTM D3900	59.0
ENB Content,wt%	ASTM D6047	4.1

Guide Formulation

	Formulation
S552	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*

The information above is believed to be accurate and represents the best information currently available to us. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to SK Global Chemical's standard terms and conditions of sale, copies of which are available upon request and which are part of SK Global Chemical's invoices and/or order acknowledgments. Except as expressly provided in SK Global Chemical's standard terms and conditions of sale, SK Global Chemical and its affiliates make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and SK Global Chemical and its affiliates assume no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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

Cured at 160℃ for 20 min

Properties	Test Method	S552
Compound Mooney Viscosity	ASTM D1646	
ML 1+4 @ 100℃		55.3
Pre-vulcanization characteristics	ASTM D1646	
Large Rotor at 125℃		
Minimum (Vm)		36
t'5 (min)		8.25
t'35 (min)		12.02
Rotorless Cure Meter(MDR)	ASTM D5289	
ML (lb-in)		1.57
MH (lb-in)		12.14
ts2 (min)		1.73
tc50 (min)		3.2
tc90 (min)		12.01

Properties	Test Method	S552
Specific Gravity	ASTM D792	1.206
Hardness（shore A）	ASTM D2240	69
Tensile Strength (kgf/cm^2)	ASTM D412	93
Elongation (kgf/cm^2)	ASTM D412	331
100% Modulus (kgf/cm^2)	ASTM D412	37
200% Modulus (kgf/cm^2)	ASTM D412	67
300% Modulus (kgf/cm^2)	ASTM D412	90

Compression Set (25% Compressed)

Properties	Test Method	S552
C.Set(%)	ASTM D395	
at 70℃ for 22 hrs		25.8

The information above is believed to be accurate and represents the best information currently available to us. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to SK Global Chemical's standard terms and conditions of sale, copies of which are available upon request and which are part of SK Global Chemical's invoices and/or order acknowledgments. Except as expressly provided in SK Global Chemical's standard terms and conditions of sale, SK Global Chemical and its affiliates make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and SK Global Chemical and its affiliates assume no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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

The information above is believed to be accurate and represents the best information currently available to us. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to SK Global Chemical's standard terms and conditions of sale, copies of which are available upon request and which are part of SK Global Chemical's invoices and/or order acknowledgments. Except as expressly provided in SK Global Chemical's standard terms and conditions of sale, SK Global Chemical and its affiliates make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and SK Global Chemical and its affiliates assume no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.