

Product Data Sheet

SUPRENE[®] 6075WF

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SUPRENE EPDM 6075WF is a non-aromatic oil extended 'friable bale' ENB type grade which contains 75phr of non-staining paraffinic oil.

SUPRENE EPDM 6075WF is possible to load it with high concentration of fillers etc. When blended with non-oil extended SUPRENE EPDM grade, the SUPRENE EPDM 6075WF improves the properties and processability (at mixing and extruding) of the non-oil extended grade and it has good physical properties at the low temperature. It can be formulated to make products of lower hardness. Its blend with diene-type rubber gives excellent physical properties.

SUPRENE EPDM 6075WF is mainly used in automotive parts such as window seal, hose, and various industrial parts.

Raw Polymer Properties

	Test Method	Unit	Min.	Max.	Typical Value
Mooney Viscosity, (ML 1+4, 125°C unmilled)	ASTM D1646	-	46	54	50
Ethylene Content	ASTM D3900	wt%	58	62	60
ENB Content	ASTM D6047	wt%	4.2	5.2	4.7
Oil Content	-	phr	72	78	75
Volatile Matter	ASTM D5668	wt%	-	0.8	-
Ash	ASTM D5667	wt%	-	0.15	-
Physical Form, (kg/bale)	-	-	-	-	Friable Bale (25kg/bale)

* Ethylene Content + Propylene Content = 100%

SUPRENE[®] 6075WF

Typical Properties

Properties	Test Method	S6075WF
Mooney Viscosity ML 1+4 @ 125°C	ASTM D1646	50.0
Ethylene Content, wt%	ASTM D3900	60.0
ENB Content, wt%	ASTM D6047	4.7

Guide Formulation

	S6075WF
S6075WF	175.0
Silica	15.0
W-1900	10.0
CaCO ₃	90.0
ZnO	5.0
PEG-4000	4.0
Stearic Acid	2.0
SDA-21G	4.0
TiO ₂	4.0
MBT(M)	0.5
MBTS(DM)	0.5
TMTD(TT)	0.5
CBS(CZ)	0.5
ZnMDC(PZ)	0.4
Sulfur	1.4
Total	312.8

* Unit: phr

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Properties	Test Method	S6075WF
Compound Mooney Viscosity ML 1+4 @ 100°C	ASTM D1646	58.9
Pre-vulcanization characteristics Large Rotor at 125°C	ASTM D1646	
Minimum Viscosity (Vm)		39.6
t'5 (min)		11.35
t'35 (min)		18.98
Δt30		7.63
Rotorless Cure Meter (MDR, 160°C/15min)	ASTM D5289	
M _L (lb·in)		2.1
M _H (lb·in)		12.8
t _{S2} (min)		2.41
t _{C50} (min)		3.37
t _{C90} (min)		8.25

Cured at 160°C for 10 min

Properties	Test Method	S6075WF
Specific Gravity	ASTM D792	1.16
Hardness (shore A)	ASTM D2240	43
Tensile Strength (kgf/cm ²)	ASTM D412	32
Elongation (%)	ASTM D412	539
100% Modulus (kgf/cm ²)	ASTM D412	7.6
Tear Strength (kgf/cm)	ASTM D624	12.3

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Heat Resistance

Properties	Test Method	S6075WF
Hardness (Change Point)	ASTM D2240	+2
Tensile Strength (Change %)	ASTM D412	-22
Elongation (Change %)	ASTM D412	-31

* After 72 hours oven aging at 120 °C per ASTM D573

Compression Set

Properties	Test Method	S6075WF
Compression Set (%)	ASTM D395 (Method B)	
After 72 hours at 100°C		21.4
After 72 hours at -50°C		53.8

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