Typical Plain Rubber Washer Compound Analysis

A. Polymer identification
(Infra-Red Spectroscopy)
1. Ethylene-propylene Rubber
2.
3.

B. Ash Content: 12.4%

C. Semi-quantitive Ash Analysis
(Atomic Absorption)
a. > 10%……Ca
b. 5-25%……
c. 1-10%……Zn
d. 0.5-5%……..Mg. Ba
e. 0.1-1%……
f. 0.05-0.5%……..Fe
g. 0.01-0.1%……
i. Not detected……..Pb, Cu, Al Si, Ti

D. Total Hydrocarbon: 22.7%

E. Total Sulfer……1.01%
(Ieco Sulfer Determinator)

F. Specific Gravity……1.357

G. Wax Content……

H. Extractables: 20.3%
(ASTM D297)
1. Color……Yellow
2. Consistency……...Liquid

I. Carbon Black: 44.2%

J. Extract Analysis

1. Plasticizers; D2702
2.
3.

1. Antioxidants; D3156
2.
3.

1. Accelerators; (suggested)
2.
3.

K. Bellstein……Negative
(Presence of Halogens)

L. Shore-A Hardness: 70 Duro +/-7

Theoretical Ash Content……	12.4%
Theoretical Extractables……	20.3%
Theoretical Carbon Black……..	44.2%
Theoretical Specific Gravity……....	12.4%

Comments: * it may contain wax, processing aids…etc.

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