

Rubber EPDM

Application Note

Introduction:

Interfibe was evaluated in an EPDM rubber formulation to determine if chemical bonding took place. A fiber-filled compound showed considerably less swelling after aging in ASTM #3 reference oil than the control without fibers. The elongation in the fibered compound after aging also compared favorable to the non-aged sample. This provides evidence that the fiber to matrix bonding mechanism is both mechanical and chemical.

Interfibe FT, used in combination with a resorcinol formaldehyde / methylene donor system, contributes internal dimensional strength to the rubber matrix.

Objectives:

Formulators are continuously striving to reduce the cost while maintaining product strength and dimensional properties.

Solution:

Interfibe FT, in combination with an internal bonding system, reduces cost, maintains physical properties and gives a smoother appearance to the extruded product.

interfibe[™]

*For further information, call
your local distributor or
Interfibe Corporation.*

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BASE EPDM FORMULATION

Ingredient	Parts/100 Rubber (PHR)
EPSYN 5508	100.00
GPFN-650	100.00
SRF-N-774	80.00
Zinc Oxide	5.00
Stearic Acid	1.00
Circosol 4240	35.00
Sunpar 2280	80.00
Sulfur	1.70
T.M.T.M.	1.80
Ethyl Cadamante	.90
M.B.T.S.	.60
TOTAL MASTERBATCH	406.00

EPDM AUTOMOTIVE HOSE FORMULATION USING INTERFIBE FT

FORMULA WITH INTERFIBE FT

Master batch	406
Interfibe FT	54
Bonding Agent	2
Resimene 3520	1.25

PHYSICAL PROPERTIES

Duro 'A'	83
Tensile strength PSI	1147
Elongation %	40

COMMENTS

Interfibe has been production evaluated in a Banbury mixer and extruded through the Monsanto orie Interfibe FT with bonding agents is comparable to the currently used Santoweb H, and offers like pr in a hose type product. Use of Interfibe FT reduces compound cost and provides for a much improv finish of the end product.

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