Fiber Technologies, LLC

Fiber Technologies **AP 101** fluoroadditives are homogenous blends of Polytetrafluoroethylene (PTFE) and select surfactants and processing aids. These fluoroadditives work by enhancing the physical properties of elastomers. During compounding, **AP 101** creates a unique, ***fiber-reinforced network*** that significantly increases the strength and durability of elastomers.

Fiber Technologies AP 101 modifies physical performance characteristics of Elastomers:

- Tear strength
- Tensile strength
- Modulus
- Abrasion resistance
- Elastic recovery
- Stiffness
- Durabilitv

Fiber Technologies AP 101 imparts unique features into Elastomers:

- Fiber matrix
- Internal lubricity
- Improved mold release
- Improved green strength
- Chemical resistance
- Resistance to part deformation
- Improved physical performance

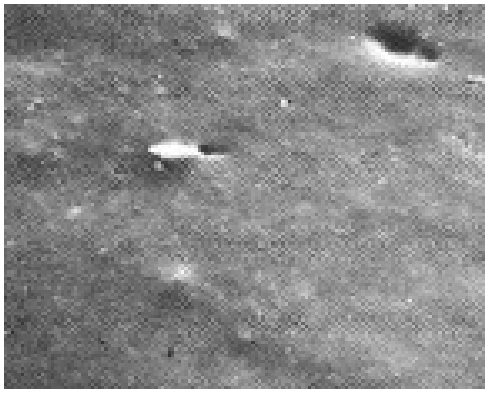
Properties	AP 101
Color	Gray
Particle Size	2 to 50 Micron
Specific Gravity	≈ 2.4
Functions	Reinforcing Fiber Network Improved Modulus Improved Tear Strength
Normal Level of Use	2 - 12 pph

Products that benefit from AP 101

Asphalt
Belts
Coatings
Conveyer Lines
Connectors
Diaphragms
Door-Window Seals
Flexing Components
Foam
Gaskets
Grips
Grommets
Hoses
Insulation
Isolators
Bumpers
Supports
Mats
Motor mounts
O-Rings
Pads
Plugs
Protective Covers
Road Expansion Joints
Rollers
Room Temperature Vulcanite's
Seals
Spacers
Stops
Tires
Tube Connectors
Vibration Dampers
Wiper Blades

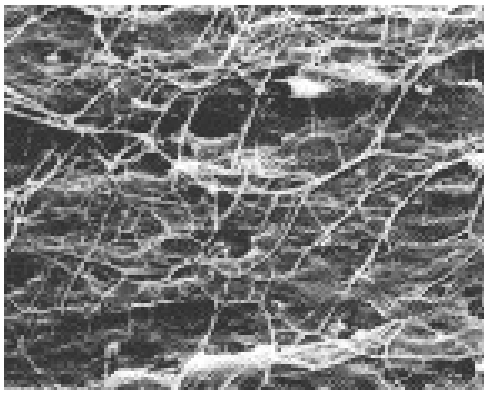
Examples of Elastomer Enhancement

FKM	Control FKM	6 pph of AP 101	6 pph AP101/ 22pph AP202
100% Modulus	606	**1359**	**1457**
Tensile	1403	**1742**	**1772**
Elongation %	313	**214**	**173**
Tear, Die C	163	**256**	**262**



Elastomer Unmodified

NBR	Control NBR	NBR with 3pph AP 101
Tensile	1892	**2235**
Elongation	125	**130**
Durometer	73	**77**
Tear, Die C	57	**99**
Specific Gravity	1.22	1.23



AP 101 Modified Elastomer

EPDM	Control EPDM	6pph of AP101	6pph of AP101 - 24pph AP 202
100% Modulus	345	**564**	**703**
Tensile	1898	**2015**	**1526**
Elongation	319	324	268
Tear, Die B	130	**240**	**135**

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