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**ELASTOMERS  
 -NATURAL RUBBER-**

**PA-57 RUBBER**

**PRODUCT DESCRIPTION:**

PA-57 is a 40% oil-extended version of PA-80, being a lightly cross-linked natural rubber extended with a light colored non-staining oil.

**RECOMMENDED USES:**

Identical to those of PA-80, whenever the presence of oil is not disadvantageous. Provides desirable superior processing qualities in fabrication methods as extrusions, calendaring and open steam curing.

**COMPOSITION:**

PA-57 Rubber is produced by mixing 80 parts of pre-cured latex and 20 parts uncured latex with 40 parts oil. Therefore, PA-57 contains 57% of crosslinked rubber; i.e., a 40% oil extended PA-80. PA-57 Rubber contains the following formulation:

PA-57 Rubber .....	140.00
MBT .....	0.32
Accelerator EZ .....	0.16
Sulfur .....	1.60
Zinc Oxide .....	1.20

**COMPOUNDING:**

When replacing PA-80 with PA-57 to obtain similar processing characteristics, use 1.4 parts of PA-57 for every part of PA-80. However, the customary use of PA-57 can be similar to PA-80; thus 21 parts of PA-57 are used with each 85 parts of crude or synthetic rubber. Greater percentages of PA-57 will yield greater special effects.

**MIXING:**

PA-57 is noted for its improved mixing characteristics versus PA-80. It can be added directly to most rubbers without pre-mastication. Mixing can also be achieved on open mills or in internal mixers. The lower viscosity of PA-57 results in lower mixing temperatures than PA-80. However, a retarder, such as our Retarder AK, is recommended as an addition to protect against the possibility off additional cross-linking during mixing. The use of peptizing agents is not recommended since they tend to break the cross-linking present and thus reduce the beneficial properties of this rubber.

**PACKAGE AND FORM:**

PA-57 is a crumb form of rubber compressed into bales and packaged in a LDPE bale wrapper.

**STORAGE:**

Due to the nature of PA-57 to increase in viscosity during bin storage, it is recommended that PA-57 be stored under cool / dry conditions if a “cold room” is not available.

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