Ethylene Acrylic Elastomer (AEM)

Ethylene Acrylic is also known as AEM or Vamac®. This material was designed to be used in automotive application and enhance the low-temperature flexibility over acrylic elastomer (ACM). AEM is made into components due to its excellent physical properties, including low compression set and good resistance to automotive fluids, such as transmission fluid and engine oil.

Common applications of AEM include engine seals and gaskets and specialty hoses and boots. It is typically selected to replace Nitrile Rubber or neoprene for better performance, and the cost is lower than HNBR and FKM.

Typical curing systems on AEM are Diamine-based and peroxide-based. In addition, Vamac® is a registered trademark of DuPont.

General Information	
ASTM D1418 Designation	AEM
ISO/DIN 1629 Designation	AEM
ASTM D2000 / SAE J200 Codes	EE
Standard Color(s)	Black
Hardness Range	40 – 90 Shore A

Temperature Range	
Standard Temperature	-22°F – 302°F (-30°C – 150°C)
Special Compound	-40°F – 347°F (-40°C – 175°C)

Ideal Application Environments

- Mineral oil (engine, gearbox, ATF oil).
- Ozone, weather and hot air aging.
- Water

Not Suitable For

- Ketones
- Fuels
- Brake fluid