



## What material are bearing seals made of?

by Mike Mortensen - Director of Engineering RBI-USA

Three materials are commonly used in bearing seals. By far the most common material used in bearing seals is nitrile rubber, a shortened version of acrylonitrile rubber. Sometimes this material is referred to as Buna N rubber. It has a high temperature capability between 100°C – 120°C.

Another slightly more expensive seal material that is sometimes used is poly acrylic rubber. It offers a higher temperature capability of 160 – 170°C but its low temperature performance is not as good as nitrile rubber.

The third most common seal material is fluorocarbon rubber also referred to as Viton. This is most expensive of the three seal materials and offers the highest temperature capability and chemical resistance. Fluorocarbon seals can endure temperatures over 200°C.

<a href="http://www.rbibearing.com">www.rbibearing.com</a>			
<b>CHICAGO IL</b> <b>(800) 708-2128</b> (630) 295-5490 Fax	<b>MONROVIA CA</b> <b>(800) 358-7652</b> (626) 357-7426 Fax	<b>TORONTO ON</b> <b>(800) 724-2426</b> (905) 670-2062 Fax	<b>CALGARY AB</b> <b>(800) 724-2426</b> (403) 256-9140 Fax