

<b>ORING.SU</b>			
<b>Material Data Sheet</b>	Material Code	<b>N75L</b>	Issue 2 Revision 1
	Designation	<b>NBR</b>	December 2001

**MATERIAL TYPE:** Nitrile Butadiene Rubber (NBR), 65-75 °IRHD. Ultra-Low acrylonitrile (ACN) content. Copolymer of acrylonitrile and butadiene. To meet ASTM D2000/SAE J200 line call-out: MBF710, B34, F19.

**APPLICATION:** Specifically formulated for use in pure air systems. The low acrylonitrile content of this compound provides excellent resistance to mineral oil, alcohol, paraffin and low-aromatic petrol in sub-zero temperature applications. Not recommended for use with acetone, benzene, chlorinated solvents or high-aromatic petrol. Good water resistance but poor against ozone and weather.

**TEMPERATURE RANGE:** Maximum temperature: **+135°C (+275°F)**.  
Minimum temperature: **-60°C (-76°F)**.

**STORAGE RECOMMENDATION:** Initial storage = 7 years, extended storage = 3 years.

<b>TYPICAL PHYSICAL PROPERTIES:</b>			
<b>Property</b>	<b>Unit</b>	<b>Test Method</b>	<b>Value</b>
Hardness (points)	°IRHD	ASTM D 1415 (=ISO 48)	70
Tensile strength	MPa	ASTM D 412 (=ISO 37)	12.0
Elongation at break	%	ASTM D 412 (=ISO 37)	275
<b>Compression Set, Method B;</b>			
24 hours at 100°C (212°F)	%	ASTM D 395 (=ISO 815)	15
<b>Heat Resistance;</b>			
70 hours at 100°C (212°F)		ASTM D573 (=ISO 188)	
Hardness change (points)	°IRHD	ASTM D 1415 (=ISO 48)	+3
Tensile strength change	%	ASTM D 412 (=ISO 37)	-10
Elongation at break change	%	ASTM D 412 (=ISO 37)	-22
<b>Low Temperature Resistance;</b>			
Non-brittle after 3 minutes at	°C		-56

**HEALTH & SAFETY DATA:** No known hazard exists if used in accordance with the temperature range as quoted.

**FIRE HAZARD:** Ignition temperature >300°C (572°F).

Thermal decomposition will generate carbon dioxide, carbon monoxide, hydrocarbons, nitrogen compounds and hydrogen cyanide. In the event of a fire, fire fighters must wear self-contained breathing apparatus and a protective suit. Extinguish with water, foam, carbon dioxide or dry chemical.

**DISPOSAL:** Must conform to national, state and/or local regulations. Landfill is recommended. Burning is not recommended, unless conducted by an approved/licensed incineration agency.

**SPECIAL NOTE:** This information is to the best of our knowledge accurate and reliable. However, PPE make no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life, therefore a regular program of inspection and replacement is strongly recommended.