



## Specification Sheet

**Seal & Cylinder Source Incorporated**  
 44250 Groesbeck Hwy.  
 Clinton Township, MI 48036

Phone: 586-791-9001  
 Fax: 586-791-9033  
 E-mail: sales@sealandcylinder.com

### **MATERIAL : Hydrogenated Acrylonitrile Butadiene Rubber (H-NBR) Green**

Property	Spec	Value
Hardness	DIN 53505	85A
Hardness	DIN 53505	
Specific Gravity	DIN 53479	1.32 g/cm <sup>3</sup>
Tensile Strength	DIN 53504	19.5 N/mm <sup>2</sup>
Ultimate Elongation	DIN 53504	245%
20% Modulus	DIN 53504	N/mm <sup>2</sup>
100% Modulus	DIN 53504	9.70 N/mm <sup>2</sup>
300% Modulus	DIN 53504	N/mm <sup>2</sup>
Elasticity	DIN 53512	30%
Tear Strength	DIN 53507	6 N/mm <sup>2</sup>
Abrasion	DIN 53516	110mm <sup>3</sup>
Impact Resilience	DIN 53512	-
Compression Set 70C 22 Hrs	DIN 53517	-
Compression Set 100C 22hrs	DIN 53517	21%
Brittle Point	DIN 53479	-
Minimum Service Temp.		-20° C -4° F
Maximum Service Temp.		150° C 302° F
Color		Green/Black

#### **Description:**

H-NBR is a highly saturated elastomeric based on acrylonitrile butadiene rubber. This compound has improved chemical resistance, higher service temperature and lower brittle temperature than regular Nitrile. H-NBR is very abrasion resistant and is highly elastic which allows for easy installation. This material is highly recommended for applications involving high temperature water glycols. It is also valuable in the production of crude oil and natural gases which includes exposure to hydrogen sulfide, amine corrosion inhibitors, steam, and acids.