

## Material Specification

### N03 Revision A

# Hydrogenated Acrylonitrile Butadiene Rubber H-NBR

Material Specification					
Created: MZ	Date: 10/13/10	Revision: A	Released: 10/14/10	Material Code: N03	Description: Elastomer

**1. Scope**

This document describes property requirements for a material primarily used in sealing applications.

**2. Specification**

Hardness	DIN 53505	85A
Density	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%
100% Modulus	DIN 53504	9.7 N/mm <sup>2</sup>
Elasticity	DIN 53512	30%
Tear Strength	DIN 53507	6.5 N/mm <sup>2</sup>
Abrasion	DIN 53516	110mm <sup>3</sup>
Compression Set 100C 24hrs	DIN 53517	21%
Minimum Service Temp.		-20° C
		-4° F
Maximum Service Temp.		150° C
		302° F
Color		Green/Black

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### 3. Test References

Abrasion	DIN 53516
Compression Set 100C 24hrs	IDIN53517
Density	DIN 53479
Elasticity	DIN 53512
Hardness A	DIN 53505
Tear Strength	DIN 53507
Tensile Strength	DIN 53504
Ultimate Elongation	DIN 53504
100% Modulus	DIN 53504

### 4. Revisions

**Revision:** A  
**Date:** 10/13/2010  
**Written By:** MEZ  
**Approved:**  
**Date Approved**  
**Reason:** Updated to new format

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