

Material Specification

N01 Revision A

Acrylonitrile Butadiene Rubber NBR

Material Specification					
Created: MZ	Date: 10/13/10	Revision: A	Released: 10/14/10	Material Code: N01	Description: Elastomer

1. Scope

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

2. Specification

Hardness	ISO 868	85A
Density	ISO 1183	1.32 g/cm ³
Tensile Strength	DIN 53504	17 N/mm ²
Ultimate Elongation	DIN 53504	150%
100% Modulus	DIN 53504	11 N/mm ²
Elasticity	DIN 53512	20%
Tear Strength	DIN 53515	9 kN/m
Abrasion	DIN 53516	130mm ³
Compression Set 70C 24 Hrs	ISO 815	<5%
Compression Set 100C 24hrs	ISO 815	<6%
Minimum Service Temp.		-35° C
		-31° F
Maximum Service Temp.		120° C
		248° F
Color		Black

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3. Test References

Abrasion	DIN 53516
Compression Set 100C 24hrs	ISO 815
Compression Set 70C 24 Hrs	SO 815
Density	ISO 1183
Elasticity	DIN 53512
Hardness A	ISO 868
Tear Strength	DIN 53515
Tensile Strength	DIN 53504
Ultimate Elongation	DIN 53504
100% Modulus	DIN 53504

4. Revisions

Revision: A
Date: 10/13/10
Written By: MZ
Approved: JDK
Date Approved 10/14/10
Reason: Updated to new format

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