TECHNICAL DATA SHEET

SC 50 NBR | STEAM CURE SOLID MATERIAL BASED ON NITRILERUBBER

SC 50 NBR is a premium grade, steam cure 50 Shore A Hardness Nitrile Rubber, used in hydrocarbon applications.

PRODUCT OVERVIEW

- Typical applications include lining of tanks, launders, pipes, and chutes,
- Not suited for slurry abrasion and wear applications.



STANDARD FEATURES

01 **Roll Width:** 1200mm–1450mm wide (custom on request)

02 **Thickness Range:** 1.5mm–20.0mm

03 **Length Range:** 10 or 12m (custom on request)

04 **Available Colours:** Black

05 **Packaging:** Yellow Embossed Plastic



RECOMMENDED STORAGE CONDITIONS:
Store below **23°C** on **suspended** racks or shelving to avoid **creasing, damage, and flat spots.**
Typical **values may vary** by batch **and** application and are **not a performance guarantee.**
Users must confirm material suitability before use.

PHYSICAL PROPERTIES

DESCRIPTION	NITRILE (NBR)
Hardness (SANS 10048)	50±5 Shore A
Specific Gravity (S.G)	1.13 (±0.2) g/cm³
Elongation At Break (SANS 10037)	500% (min)
Tensile Strength (SANS 10037)	12 Mpa (min)
Classification (SANS 1198-2005)	Type 2 Grade C Class 50
Tear Strength (ISO 34:2022)	N/A
Abrasion Loss (ISO Method B)	N/A
Temperature Range	Max. operating temperature 90°C
Shelf Life @23°C	6 weeks from manufacture date

MATERIALS TESTING

STANDARD TESTING INCLUDES:

- ✓ Rheometer & SG Testing
- ✓ E@B Testing
- ✓ Tensile Testing
- ✓ Mooney Viscosity

OPTIONAL TESTING ON REQUEST:

- ✓ Abrasion Resistance
- ✓ Compression Set
- ✓ Rebound Resilience

ADHESION SYSTEM

NON-UV RESISTANT

Uncured Rubber to Metal

- HeroBond®080 (Orange Primer) 10-11m2
  Minimum drying time 30 minutes
- HeroBond®082 (Black cover coat) 9-10m2
  Minimum drying time 30 minutes at room temperature
- HeroBond®086 (Black tie coat)
  1 coat 6,2 sq.m/litre 2 coats 3,1 sq.m/litre
  One coat on steel, one coat on rubber

UV RESISTANT

- HeroBond®089 Green Primer 11m2
  1 hour to dry in-between
- HeroBond®090 Red Cover Coat 20m2



NOTE:

- The handling precautions above are limited to general recommendations based on information obtained from suppliers of individual compounding ingredients.
- Information is given with the understanding that the manufacturer will satisfy themselves that precautions to health and safety hazards presented by their conditions of use are adequate.
- Since conditions of product and disposal is outside our control we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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