

# Bremsereservedele med gummikomponenter - Anbefaling om opbevaring | HELLA

**Anbefaling om opbevaring**  
**Generelt** Gummi er et alsidigt, elastisk og relativt robust materiale. Imidlertid kan gummi ikke opbevares ubegrænset under ugunstige forhold. Der benyttes komponenter af gummi i en række komponenter som f.eks. bremse- og koblingsslanger, hoved- og hjulcylindre.  
**Opbevaringstid og holdbarhed** Gummikomponenter kan opbevares i mellem 2 og 15 år, alt efter anvendelse. Da materialegruppen ikke altid er kendt, anbefaler HELLA at kontrollere gummikomponenter første gang efter en opbevaringstid på fem år. Derefter kan opbevaringstiden forlænges med to år. Den maksimale forlængelse af opbevaringstiden gælder kun ved optimale forhold samt efter grundig kontrol af delene.  
**Anbefalet opbevaringstemperatur: 25 °C** Maksimal mulig opbevaring under optimale forhold iht. ISO2230 (tabel)  
**Materialegruppe**  
**Første opbevaringsperiode**  
**Forlængelse**  
**Gruppe A: SBR** 5 år / 2 år  
**Gruppe B: NBR** 7 år / 3 år  
**Gruppe C: EPDM** 10 år / 5 år  
**Opbevaringsforhold**  
For ovennævnte produkter anbefaler HELLA følgende opbevaringsforhold:  
**Opbevaring i kølige, tørre, støvfri og let ventilerede lokaler**  
**Opbevaring udendørs afskærmet mod vejrliget er ikke tilladt**  
**Opbevaring ikke under -10°C eller over 35°C**  
I opvarmede lokaler skal gummiprodukter afskærmes fra varmekilder  
**Direkte sollys eller kraftigt kunstigt lys med højt indhold af ultraviolet stråling skal undgås**  
Da ozon er særdeles skadeligt, må lagerlokalerne ikke indeholde nogen ozonfrembringende anordninger som f.eks. elektromotorer eller andre apparater, der kan frembringe gnister eller andre elektriske udladninger.  
**Opbevaring skal ske i lukket originalemballage**  
Det skal påses, at gummidele opbevares spændingsfrit, dvs. uden træk, tryk eller anden deformation, da spændinger fremmer både permanente deformationer og revnedannelse

## General information

Rubber is a versatile, elastic, and relatively durable material. However, rubber cannot be stored indefinitely in adverse conditions. Rubber parts are fitted to various components such as brake and clutch hoses, brake master cylinders, and wheel brake cylinders.

## Storage period and shelf life

The storage period of rubber parts is between 2 and 15 years, depending on the application.

As the allocation to a material group cannot be guaranteed in every case, HELLA recommends you inspect rubber parts for the first time following an initial storage period of five years.

The storage period can then be extended by two years. The storage period can only be extended by the maximum amount if the optimum storage conditions exist and if the parts have been inspected accordingly.

Recommended storage temperature: 25°C

Maximum shelf life under optimal conditions according to ISO2230 (table)

Materialgroup	Initial storage period	Extension
Gruppe A: SBR	5 years	2 years
Gruppe B: NBR	7 years	3 years
Gruppe C: EPDM	10 years	5 years

SBR = styrene butadiene rubber  
NBR = nitrile butadiene rubber  
EPDM = ethylene propylene diene monomer

## Storage conditions

HELLA recommends the following storage conditions for the above products:

- Storage in cool, dry, low-dust, and moderately ventilated rooms
- Storage outdoors is not permitted, even when protected against the weather
- Storage not below -10°C and not above 35°C
- Rubber and natural rubber products must be shielded from heat sources in heated rooms
- No direct insolation or strong artificial light with high ultraviolet content
- As ozone is particularly harmful, storage rooms must not contain any ozone-producing equipment whatsoever, e.g. electric motors or other equipment that could generate sparks or other forms of electrical discharge
- Store in sealed original packaging
- Make sure that rubber parts are stored free of stress, i.e. without tension, compression, or other deformation, as stress creates the ideal conditions for permanent deformation and cracking

## **Important safety note**

Technical information and practical tips have been compiled by HELLA in order to provide professional support to vehicle workshops in their day-to-day work. The information provided on this website is intended for use by suitably qualified personnel only.

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