


versalis
www.versalis.eni.com

Technical Data Sheet

info.elastomers@versalis.eni.com

EUOPRENE®

NBR

N 4560

Acrylonitrile-Butadiene Rubbers

Europrene® N 4560 is a cold polymerized acrylonitrile-butadiene copolymer made at the Porto Torres production facility in Italy. A non staining antioxidant is added during the production process.

Main Properties	Test Method	Typical Value
ACN Content, % wt	ASTM D 3533	45
Mooney Viscosity ML 1+4(100 °C)	ASTM D 1646	60
Volatile matter, % wt	ASTM D 5668	0.7 max
Ash, % wt	ASTM D 5667	0.5 max
Organic Acid, % wt	ASTM D 5774	0.5 max
Soap, % wt	ASTM D 5774	0.6 max

Key Features

Europrene® N 4560 is characterised by the highest oil and aliphatic hydrocarbon swelling resistance among the Europrene N grades. Mechanical properties decay of articles based on this elastomer is very limited also after long contact time with fuels whereas permeability of vulcanised articles is very low. The vulcanization can be performed using sulphur based systems or with peroxides. The low temperature properties can be improved by adding polar plasticizers as synthetic esters of adipic, sebacic or phthalic acids. If the finished rubber article requires particular resistance to heat, light and ozone resistance, then suitable protective agents as amine or phenolic antioxidants have to be added in the compounding process.

Main Applications

Gaskets for oil bath, transformers, fuel hoses, oil sealing rings, gaskets for hydrocarbon ducts, flat gaskets for carburettors, etc.

Physical Form

Light yellow bales wrapped in a strippable and easily dispersible polyethylene film (softening Vicat point: 90-100 °C)

Packaging

Wooden crate IPPC, 30 kg bale, 40 bales per crate (1090 x 1250 x H1450 mm).
 Wooden crate IPPC for over seas market, 30 kg bale, 30 bales per crate (1090 x 1250 x H1100 mm).
 Label on the crate indicating the type, lot number, crate number, nominal net weight.
 Polyethylene strip on bales with product type printed on it.

Storage Conditions

Shelf life 24 months.
 Store in vented , dry area at tempertures between 20°C and 30°C, no direct sunlight.

Please consult the relevant safety data sheet for more detailed information.
 The information and data presented herein are to the best of our knowledge true and accurate, but no warranty or guarantee, is made nor liability accepted with respect to the use of such information and data.

® Registered Trademark

1204