

Technical Data Sheet



www.versalis.eni.com

technicalmanagement@versalis.eni.com

EUROPRENE®

NBR

N 1945 GRN

Acrylonitrile-Butadiene Rubbers

Europrene® N 1945 GRN is an advanced technology 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	19
Mooney Viscosity ML 1+4(100 °C)	ASTM D 1646	45
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 1945 GRN is the grade with the best low temperature properties in Europrene N family. As all GRN grades it shows higher cure rate, higher low temperature flexibility, higher crosslinking density and better mechanical properties, better oil and fuel resistance in comparison to STD grades. The improved processability guarantees low mould fouling products and then long production runs, lower mould wear and less production controls. The vulcanization can be performed by sulphur based systems or by peroxides. The low temperature properties can be further improved by adding polar plasticizers as synthetic esters of adipic, sebacic or phthalic acids. To improve heat, light and ozone resistance, suitable protective agents as amine or phenolic antioxidants have to be added in the compounding process.

Main Applications

Injected or extruded technical goods requiring oil resistance and very good low temperature flexibility.
Food contact applications.

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 temperatures 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.