



versalis

Technical Data Sheet

EUROPRENE®

NBR

N 3945 GRN

Acrylonitrile-Butadiene Rubbers

Europrene® N 3945 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	39
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 3945 GRN is characterised by excellent processability and tear resistance at high temperature, good dimensional stability both in calendaring and in extrusion. GRN grades show 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 medium ACN content gives a very good compromise to get both low temperature flexibility and oil resistance. The vulcanization can be performed by sulphur based systems or by peroxides. The low temperature properties can be improved by adding polar plasticizers as synthetic esters of adipic, sebacic or phtalic 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

Wide range of technical articles requiring good processability and a very high oil and fuel resistance. Suitable for injection applications (low mould fouling).

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.

