

Technical Data Sheet



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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 ML1+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 calendering 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 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

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.

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.