

Technical Data Sheet



EUROPRENE®

NBR

N 3960

Acrylonitrile-Butadiene Rubbers

Europrene® N 3960 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	39
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

The high ACN content confers to compounds based on Europrene® N 3960 good hardness properties and good oil and aliphatic hydrocarbon swelling resistance. 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. 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

Applications requiring very high oil and fuel resistance and excellent mechanical properties.

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.

