

Europrene® N 3945 GRN

Acrylonitrile Butadiene Rubber

Versalis S.p.A.

Message:

Europrene® N 3945 GRN is an advanced technology cold polymerized acrylonitrile-butadiene copolymer made at the PortoTorres production facility in Italy. A non staining antioxidant is added during the production process.

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 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.

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

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Fast Cure		
	Fuel Resistant		
	Good Dimensional Stability		
	Good Processability		
	Good Tear Strength		
	Low Temperature Flexibility		
	Oil Resistant		
Appearance	Yellow		
Forms	Bale		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Mooney Viscosity (ML 1+4, 100°C)	45	MU	ASTM D1646
Acrylonitrile Content	39.0	wt%	ASTM D3533
Ash Content	< 0.5	wt%	ASTM D5667
Organic Acid	< 0.5	wt%	ASTM D5774
Soap	< 0.6	wt%	ASTM D5774
Volatile Matter	< 0.70	wt%	ASTM D5668

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