



TECHNICAL DATA SHEET

Compound :

NBR

Copolymer acrylonitrile / butadiene (with percentage of ACN from 18% up to 50% approx.)

ORIGINAL PROPERTIES : Analysis on supplier laboratory compound

Physical-mechanical properties	Unit of measurement	Requested
Hardness	Shore A	40 ÷ 90
Density	g/cm ³	1,15 ÷ 1,50 *
Minimum temperature	° C	- 15 ÷ - 30 (- 40) **
Maximum temperature	° C	100 ÷ 110 * (130) **

Physical-mechanical characteristics	<p><i>Mechanical properties from very good to excellent *</i></p> <p><i>Resistance to permanent deformation from good to excellent *</i></p> <p><i>Good abrasion-resistance, rather high in the carboxyl types (XNBR)</i></p> <p><i>Rebound elasticity from poor to high *</i></p>
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Other properties	<p><i>Absence of toxicity **</i></p> <p><i>Good dyeing</i></p> <p><i>Air and gas impermeability from good to excellent *</i></p> <p><i>Poor UV radiation resistance</i></p> <p><i>Any flame resistance</i></p> <p><i>Poor dielectric properties</i></p>
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Chemical compatibility	<p><i>Excellent in contact with:</i></p> <ul style="list-style-type: none"> - Oils and mineral, vegetable and animal greases - Aliphatics hydrocarbons * ** and fuels * ** - Water ** and saline solutions
	<p><i>Satisfactory in contact with:</i></p> <ul style="list-style-type: none"> - Hydraulic fluids on the basis of fuel-oils and of silicic esters - Different kinds of freon - Alcohols (except the benzil) - Concentrated alkaline solutions up to 50°C *
	<p><i>Satisfactory enough in contact with:</i></p> <ul style="list-style-type: none"> - Diluted acid solutions - Xilene and toluene * ** - Sintetic lubricants on the basis of diesters
	<p><i>Insufficient in contact with:</i></p> <ul style="list-style-type: none"> - Strong concentrated mineral acids, hot diluited alkaline solutions - Ozone and atmospheric agents (except with formulations containing protective agents) - Different brake fluids on the basis of not fuel-oils - Ketones and esters - Benzene and chloridated hydrocarbons - Hydraulic fluids on the basis of phosphoric esters - Phenol

* depending from the types

** with a specific optimal formulation