



TECHNICAL DATA SHEET

Compound :

HNBR

Copolymer acrylonitrile / butadiene

ORIGINAL PROPERTIES : Analysis on supplier laboratory compound

Physical-mechanical properties	Unit of measurement	Requested
Hardness	Shore A	50 ÷ 90
Density	g/cm ³	1,15 ÷ 1,50 *
Minimum temperature	° C	- 15 ÷ - 30 * (- 40) **
Maximum temperature	° C	150

Physical-mechanical characteristics	<p>Excellent mechanical properties</p> <p>Quite good resistance to permanent deformation</p> <p>Excellent abrasion-resistance</p> <p>Rebound elasticity from poor to high *</p>
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Other properties	<p>Air and gas impermeability from good to excellent *</p> <p>Good UV radiation resistance</p> <p>Any flame resistance</p>
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Chemical compatibility	<p>Excellent in contact with:</p> <ul style="list-style-type: none"> - Oils and mineral, vegetable and animal greases - Motor oils with mineral and sintetic basis at high temperatures - ATF oils - Aliphatic hydrocarbons * ** and fuels * ** - Water ** and saline solutions
	<p>Satisfactory in contact with:</p> <ul style="list-style-type: none"> - Ozone and atmospheric agents - Hydraulic fluids on the basis of fuel-oils amd from sillicic esters - Different kinds of Freon - Alcohols (except the benzil) - Concentrated alkaline solutions up to 50°C *
	<p>Satisfactory enough in contact with:</p> <ul style="list-style-type: none"> - Diluted acid solutions - Xilene e toluene * ** - Sintetic lubricants on the basis of diesters
	<p>Insufficient in contact with:</p> <ul style="list-style-type: none"> - Strong concentrated mineral acids, hot diluited alkaline solutions - 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