



# TECHNICAL DATA SHEET

Compound :

IIR

Copolymer isobutylene / isoprene

ORIGINAL PROPERTIES : Analysis on supplier laboratory compound

Physical-mechanical properties	Unit of measurement	Requested
Hardness	Shore A	50 ÷ 70
Density	g/cm <sup>3</sup>	1,00 ÷ 1,55
Minimum temperature	° C	- 30 ÷ - 35 * (- 45) **
Maximum temperature	° C	110 ÷ 130 **

<b>Physical-mechanical characteristics</b>	<p><i>From quite good to good mechanical properties</i></p> <p><i>Resistance to permanent deformation from quite good to good * **</i></p> <p><i>Abrasion resistance from quite good to good **</i></p> <p><i>Poor rebound elasticity</i></p>
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<b>Other properties</b>	<p><i>Excellent air and gas impermeability</i></p> <p><i>Excellent UV radiation resistance</i></p> <p><i>Excellent dielectric properties</i></p> <p><i>Any flame resistance</i></p>
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<b>Chemical compatibility</b>	<p><i>Excellent in contact with:</i></p> <ul style="list-style-type: none"> <li>- Castor oil</li> <li>- Hot water, saline solutions, steam up to a 120°C</li> <li>- Low and middle concentration of acids, basic substances also at high concentration</li> <li>- Atmospheric agents</li> <li>- Ketones, alcohols</li> <li>- Glycol and derivatived brake fluids</li> </ul>
	<p><i>Satisfactory in contact with:</i></p> <ul style="list-style-type: none"> <li>- Hydraulic fluids on the basis of phosphoric esters</li> <li>- Oils and mineral and vegetables greases</li> <li>- Acids at high concentration</li> <li>- Ozone</li> <li>- Hypochlorites</li> <li>- Different kinds of Freon</li> </ul>
	<p><i>Satisfactory enough in contact with:</i></p> <ul style="list-style-type: none"> <li>- Ketones similar to acetone, different esters and ethers</li> </ul>
	<p><i>Insufficient in contact with:</i></p> <ul style="list-style-type: none"> <li>- Oils and mineral greases</li> <li>- Motor fuels</li> <li>- Aliphatic hydrocarbons, aromatics, chloridated, not polar liquids</li> <li>- Hydraulic fluids on the basis of silicic esters</li> <li>- Sintetic lubricants on the basis of diesters</li> </ul>

\*depending from the types

\*\* with a specific optimal formulation