



TECHNICAL DATA SHEET

Compound :

VMQ

Methylvinyl-polysiloxane

ORIGINAL PROPERTIES : Analysis on supplier laboratory compound

Physical-mechanical properties	Unit of measurement	Requested
Hardness	Shore A	40 ÷ 80
Density	g/cm ³	1,09 ÷ 1,70
Minimum temperature	° C	- 65
Maximum temperature	° C	180 ÷ 220 * (+260) **

Physical-mechanical characteristics	<p><i>Mechanical properties from poor to quite good *</i></p> <p><i>Excellent resistance to permanent deformation</i></p> <p><i>Rebound elasticity from quite good to excellent * **</i></p>
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Other properties	<p><i>Very poor air and gas impermeability</i></p> <p><i>Excellent dyeing and transparency **</i></p> <p><i>Excellent resistance to UV radiations</i></p> <p><i>Excellent dielectric properties</i></p> <p><i>Slow combustion without carbon residues, possible self-extinguishability **</i></p> <p><i>Surface anti-adhesiveness</i></p> <p><i>Odourless and tasteless</i></p>
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Chemical compatibility	<p><i>Excellent in contact with:</i></p> <ul style="list-style-type: none"> - Vegetable and animal oils - Ozone and atmospheric agents - Water and saline solutions up to 100°C - Hydrogen peroxide and several oxidative substances - Water and glycols - Foods - Physiological liquids
	<p><i>Satisfactory in contact with:</i></p> <ul style="list-style-type: none"> - Hydraulic fluids on the basis of phosphoric esters - Several dielectric sintetic oils - Distilled water up to 100°C - Different esters
	<p><i>Satisfactory enough in contact with:</i></p> <ul style="list-style-type: none"> - Mineral oils at middle-high grade of aniline - Acetone
	<p><i>Insufficient in contact with:</i></p> <ul style="list-style-type: none"> - Aromatic hydrocarbons - Acids and strong mineral basic substances - Steam over 120°C - Ketons (similar higher than acetone) - Chlorinated solvents

* depending from the types

** with a specific optimal formulation