

# VARINI GUARNIZIONI INDUSTRIALI

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## MATERIAL DATASHEET VPR

### GENERAL PROPERTIES

It is a compressed non-asbestos sheet gasket material created by blending inorganic fibers and specialized fillers, bonded together using nitrile rubber (NBR).

It undergoes manufacturing via the hot calendar process, adhering to stringent quality control standards accredited under ISO-9001 certification.

The material is also offered with wire reinforcement options.

### APPLICATIONS

Engineered to demonstrate exceptional thermal stability when subjected to intense thermal cycling conditions.

It is particularly endorsed for use in saturated and superheated steam services, yet it has also demonstrated remarkable efficacy in sealing liquid petroleum derivatives, ethanol, chemical products, and various other fluids.

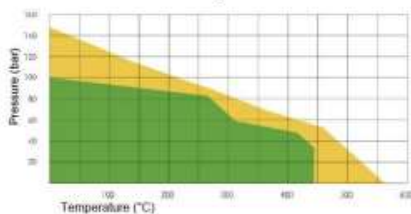
Constant Tightening	1.5mm THK.	3mm THK.
$\gamma$ (Mpa)	31	31
m	2.6	6.1

APPLICATION LIMITS	MAGNITUDE	UNIT OF MEASURE
Peak Temperature	550	°C
Working Temperature	430	°C
Max Pressure	150	bar
Working Pressure	102	bar

### PHYSICAL PROPERTIES

Color	Black	
Thickness	0.4-3.2	mm
Sheet Size	1500x1500	mm
Density (ASTM F1315)	1.46	g/cm <sup>3</sup>
Compressibility (ASTM F36A)	12-22	%
Recovery (ASTM F36)	40	%
Tensile Strength (ASTM F152)	9	N/mm <sup>2</sup>
Torque Retention (DIN 52913)	43	N/mm <sup>2</sup>
Weight Increase:		
5h/ASTM OIL/No.3 +150°C (ASTM F146)	30	%
5h/ASTM FUEL B +21-29°C (ASTM F146)	20	%
Thickness Increase:		
5h/ASTM OIL/No.3 +150°C (ASTM F146)	15	%
5h/ASTM FUEL B +21-29°C (ASTM F146)	15	%

T x P diagramm



The P x T diagram above indicates the service limits considering the simultaneous influence of pressure and temperature (chemical suitability assumed).

The green area represents the normal service limits, for the yellow area consultation is recommended, while the orange coloured area shows the maximum application limits for which technical consultation is mandatory.

This edition cancels all previous issues. Subject to change without notice

Since all properties, specifications and application parameters shown throughout this catalogue are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. Varini Guarnizioni Industriali s.n.c. does not undertake any liability of any kind whatsoever.