

KLINGERQuantum

- HNBR Binder
- Synthetic Fiber
- High Performance with Outstanding High-Temperature Properties
- Maintains Flexibility at High Temperatures
- Suitable with a Broad Range of Media
- Simple Handling and Processing
- FDA Compliant when installed ubranded



Typical values refer to 2.0 mm material unless otherwise specified.

See graphs for temperature & pressure limits

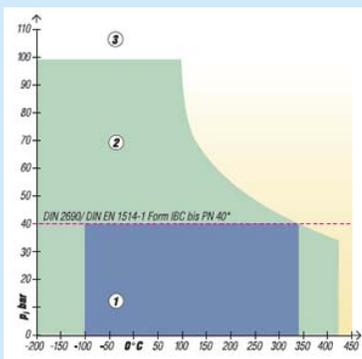
Compressibility ASTM F36J	10%
Recovery ASTM F36J	60%
Stress Relaxation DIN 52913	
50 MPa, 16 h/300°C	28 MPa
50 MPa, 16 h/175°C	32 MPa
Stress Relaxation BS 7531 1.5 mm	
40 MPa 16 h/300°C	27 MPa
KLINGER Cold/Hot Compression 50 MPa	
Thickness Decrease 23°C	10%
Thickness Decrease 300°C	14%
Thickness Decrease 400°C	20%
Tightness DIN 28090-2	0.02 mg/s x m
Thickness Increase After Fluid Immersion ASTM F146	
Oil IRM 903: 5 h/150°C	3%
Fuel B: 5 h/23°C	5%
Density DIN 28090-2	1.7 g/cm ³
ASTM F104 Line Call Out	F712122B3E22M5

Tests and Approvals

BAM DIN-DVGW TA-Luft
Fire-Safe accord. to DIN EN ISO 10497/ API 607, Fifth

Pressure & Temperature Graphs

Material Thickness: 2.0 mm



The pressure/temperature graphs shown are the most current method of determining the suitability of a gasket material in a known environment. Use the pressure and temperature graphs to select the most suitable material for your application.

- 1. In area one, the gasket material is suitable using common installation practices subject to chemical compatibility.
- 2. In area two, appropriate measures are necessary for installation of the gasket to ensure maximum performance. Please call or refer to the KLINGER® expert software system for assistance.
- 3. In area three, do not install gaskets in these applications without first referring to the KLINGER® expert software system or contacting Thermoseal Inc.'s technical support service

These graphs were developed from testing Klinger materials. Do not use them for competitors' materials since non-asbestos gasketing materials do not have service equivalents.

Use: The limitations of use, as shown in the graphs, are for guidance only, and are based on 1/16" thick material. The limitations of use decrease significantly as gasket thickness increases. Do not use a thicker gasket material or "double gaskets" to solve a gasket problem without first consulting the manufacturer. The ability of a gasket material to make and maintain a seal depends not only on the quality of the gasket material, but also on medium being sealed, the flange design, the amount of pressure applied to the gasket by the bolts and how the gasket is assembled into the flanges and tightened.



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