TECHSEAL

TS1521 MATERIAL DATA SHEET

MATERIAL DESCRIPTION & PROPERTIES

 ${\sf TS1521}$ sealing material is compounded with Stryrene Butadiene (SBR) rubber.

This product has an outstanding low sealing stress and is suitable for most lubrication fluids at application temperatures.



 $\ensuremath{\mathsf{TS1521}}$ conforms to all present regulations for hazardous substances.

• Asbestos Free

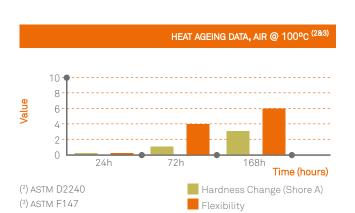
VOLUME CHANGE @ 100°C (1)

168h

Time (hours)

- Heavy Metals (Pb, Cd, Hg and Cr (VI)) Free
- Polycyclic Aromatic Hydrocarbons (PAH) Free

DENSITY (kg/m ³) ¹	650
HARDNESS (SHORE A) ²	60
TENSILE STRENGTH (MPa) ³	1,5
ELONGATION (%) ³	20
(1) ASTM D297 (2) ASTM D2240 (3) ASTM D412, Die C	



20%

15% 10% 5% 0%

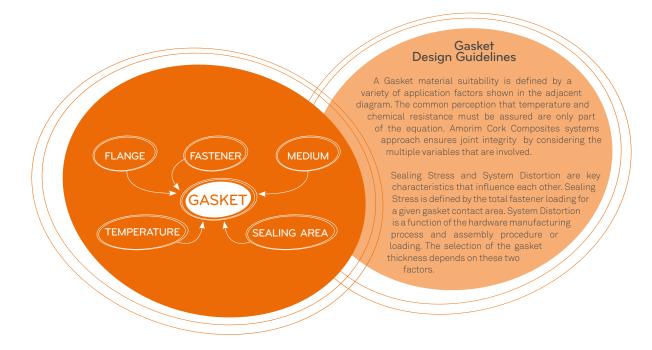
■ Engine Oil (15W40)
■ Gear Oil (75W90)

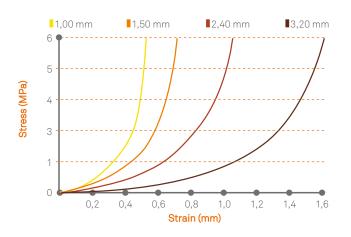
(¹) ASTM F146

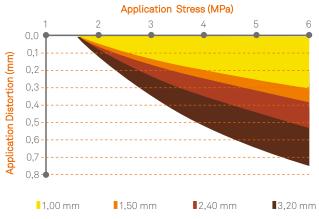
% Change

FLUID CONTACT	
UNLEADED GASOLINE	UNSUITABLE
E-85	UNSUITABLE
B-100	UNSUITABLE
DIESEL (LOW SULFUR)	UNSUITABLE
ENGINE OIL (15W40)	SUITABLE
GEAR OIL (75W90)	SUITABLE
MEG COOLANT	UNSUITABLE
PEG COOLANT	UNSUITABLE









Sealing Stress

A Load Deflection (LD) curve is a Stress (MPa) vs. Strain (mm) curve. It is the load required to compress a material at a defined thickness a determined deflection.

It is very useful when making material selections to meet engineering requirements such as flange load or controlled compression applications.

If you require LD data at a different thickness, just ask us.

System Distortion

Conformability is the ability of a gasket material to conform to flange surface roughness and out-of-flatness.

At a given sealing stress a corresponding maximum allowable flange distortion assures that a "positive seal" is guaranteed for a defined material thickness.

Intersecting the hardware distortion and the respective sealing stress, a suggested material thickness is selected. However it is always recommended to validate the material thickness in your system due to unexpected flange distortion behavior.

Check out "Q-Tool" sealing software on our website for a quick and comprehensive calculation of your joint system, or contact us for additional help to define our best material solution for your sealing requirement.



The data provided in this Material Data Sheet represents typical values. This information is not intended to be used as a purchasing specification and does not imply suitability for use in a specific application. Failure to select the proper sealing product may result in either engine damage or personal injury. Please contact Amorim Cork Composites regarding specific application recommendations. Amorim Cork Composites expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Amorim Cork Composites is not liable for any indirect special, incidental, consequential, or punitive damages as a result of using the information listed in this MDS. Any of its material specification sheets, its products or any future use or re-use of them by any person or entity.