

# MATERIAL DATA SHEET



Properties	Testing Method	Testing Parameter	Value	Units
<b>Hardness</b>	ASTM D 2240	-	70±5	Shore A
<b>Tensile Strength</b>	ASTM D 412	-	16.3	N/mm2
<b>Ultimate Elongation</b>	ASTM D 412	-	355	%
<b>Compression Set</b>	ASTM D 395	22 h / 100°C	7.6	%
	B	70 h / 100°C	11.7	
	ASTM D 395	168 h / 100°C	16.7	
	B	72 h / -20°C	36	
	ASTM D 395			
	B			
	ISO 815-2			
<b>Low temp. Resistance</b>	ASTM D 2137	3 min / -35°C	Pass	-
	ASTM D 1329	TR 10	-29.7	°C
<b>Density</b>	ASTM D 1817	-	1.23±0.02	g/cm3

Changes of properties after ageing acc. To ASTM D 471/573/865 in:

Test Parameter	Volume %	Hardness	Tensile Strength	Ultimate Elongation
<b>Medium</b>				
<b>Air</b>				
70h / 100°C	-	+4	+1.3	-10.2
168 h / 100°C	-	+6	+1.5	-16.2
504 h / 100°C	-	+11	+2.6	-31.9
24 h / 120°C	-	+5	+3.5	-12.1
70 h / 120°C	-	+8	+1.9	-25.6
70 h / 125°C	-	+11	+3.6	-28.2
<b>Water</b>				
70h / 100°C	+6	-4	-	-
<b>ASTM Fuel A</b>				
70h/23°C	+2.2	-2	-9	-3.8
<b>ASTM Fuel B</b>				
70h/23°C	+23.1	-11	-31.9	-33.9
<b>ASTM Oil No. 1</b>				
70h / 100°C	-9.1	+8	+1.9	-16.8
168h / 100°C	-8.6	+8	+5.6	-19.6
70 h / 125°C	-8.2	+9	+5.4	-18.4
70 h / 150°C	-7.9	+8	-0.1	-25.3
<b>ASTM IRM 903 Oil</b>				
70h / 100°C	+4.5	-3	-12.2	-28.2
168h / 100°C	+12.7	-3	-11.9	-32.3
70h / 125°C	+13.6	-3	-16.3	-33.4
70h/ 150°C	+12.9	-8	-17.9	-32.2

Compliant with the EU Directives 2000/53/EC (ELV), 2011/65/EC (RoHs) [2002/95/EC(RoHs)] and 2006/122/EC(PFOS)

The results displayed in this data sheet were obtained on standard test specimens following standard test procedures. Comparisons with results obtained on finished products, eg. O rings, could lead to other results due to differences in

geometry and manufacturing processes. These other results do therefore not automatically contravene the data of this sheet. The evaluation of parts prior to the use in order to ensure their suitability for the intended application is subject to the end users responsibility.