

# TEST REPORT

**Compound**  
**Tested according to**

**HVA 4350/77**

## Curing conditions

Time	min	10
Temperature	°C	170

## Dumb-Bell

**Post curing**                      **24 h**                      **225 °C**

## Physical Properties

			<b>value</b>	<b>spec.</b>
Tensile strength	DIN 53504	N/mm <sup>2</sup>	14,6	>11,5
Elongation at break	DIN 53504	%	219	>205
Tensile stress 100%	DIN 53504	N/mm <sup>2</sup>	5,1	
Abrasion	DIN 53516	mm <sup>3</sup>		
Hardness	DIN 53505	Shore A	70	70±3
Resilience	DIN 53512	%	6	>5
Tear resistance	DIN 53507B	Nmm	3,8	
Density	DIN 53479	g/cm <sup>3</sup>	2,15	

## Compression Set

22 h / 175 °C	DIN 53517B	%	3,8	<5
22 h / 200 °C	DIN 53517B	%	7,0	max 7,0

## Heat ageing (hot air)

	<b>7 d</b>	<b>225 °C</b>		
Tensile strength	DIN 53504	N/mm <sup>2</sup>	15,2	
Elongation	DIN 53504	%	227	
Change in Hardness	DIN 53505	Shore A	+2	

## Immersion Test ASTM oil I

	<b>72 h</b>	<b>175 °C</b>		
Tensile strength	DIN 53504	N/mm <sup>2</sup>	14,2	
Elongation at break	DIN 53504	%	208	
Hardness change	DIN 53505	Shore A	±0	
Volume change		%	+1	

## Immersion Test ASTM oil III

	<b>72h</b>	<b>175 °C</b>		
Tensile strength	DIN 53504	N/mm <sup>2</sup>	12,3	
Elongation at break	DIN 53504	%	177	
Hardness change	DIN 53505	Shore A	-3	
Volume change		%	+3,8	

## Rheologic characteristics

Mooney Viskosity	DIN 53523	ML1+4	:	130
Rheometer Monsanto MDR 2000 E				
Running time		Minuten	:	6
Temperature		°C	:	170
Minimum torque	DIN 53529	dNm	:	2,8
t10	DIN 53529	Minuten	:	1,5
t90	DIN 53529	Minuten	:	4,0
Maximum torque	DIN 53529	dNm	:	21,1

**Date: 27.01.03**

**Sign: Hans Langbauer**

This test report is based on sample check measurements and only mean a technical description of our compounds. It does not relief the customer from determine the suitability for manufacturing process and application of the final article.