

## MATERIAL DATA SHEET

### ECORUBBER 2 (brown), “new grade“, valid from prod-date 01/00

#### Fluoro-Rubber

(Viton = Trade mark of DuPont)

DIN / ISO  
FPM

ASTM  
FKM

Property	Unit	Value	Standard
<b>Durometer hardness</b>	SHORE A	83 ± 5	DIN 53505
<b>Density</b>	g/cm <sup>3</sup>	2,30 ± 0,03	DIN 53479
<b>Tensile strength</b>	N/mm <sup>2</sup>	≥ 8,0	DIN 53504
<b>Elongation at break</b>	%	≥ 200	DIN 53504
<b>100 % modulus</b>	N/mm <sup>2</sup>	≥ 5,0	DIN 53504
<b>Compression set: 175°C / 22h</b>	%	≤ 20	DIN ISO 815
<b>Tear strength</b>	N/mm	21	DIN 53515
<b>Rebound resilience</b>	%	7	DIN 53512
<b>Abrasion</b>	mm <sup>3</sup>	150	DIN 53516
<b>Minimum service temperature</b>	°C	-20	----
<b>Maximum service temperature</b>	°C	+200	----
<b>Heat resistance 168h / 225°C:</b>			
Change in durometer hardness	Shore A	+3	DIN 53505
Change in tensile strength	%	+24	DIN 53504
Change in elongation at break	%	-24	DIN 53504
<b>Swelling behavior in ASTM Oil No.3 acc. DIN 53521 168h/100°C:</b>			
Change in durometer hardness	Shore A	-1	DIN 53505
Volume change	%	+0,9	DIN 53521

The mentioned data are only valid for test pieces of the corresponding ISO, DIN and ASTM standards and cannot be directly related to gaskets and joints. The values which are marked with the symbols greater than (≥) and smaller than (≤) are nominal values and must be fulfilled of each batch. All values which are not marked are typical values which are only tested on selected samples.

Judenburg, Dec. 1999  
Dr. TS/Fi wdrub2e/werkstoffe