

## Material test report FKM 75

Colour Black Temp. range **-20°C / +200°C**  
(static -30°C / +230°C)  
(+250°C short time)

Property	Unit	Test method	Test parameter	Value
Hardness	Shore A	DIN 53505		75 ±5
Specific gravity	g/cm <sup>3</sup>	ASTM D 1817		1,88
Tensile strength	MPa	DIN 53504	S2	13,4
Ultimate elongation	%	DIN 53504	S2	154,3
Compression set	%	ASTM D 395 B/1	70h / 150°C	13,6
Compression set	%	ASTM D 395 B/1	24h / 204°C	19,7
Compression set	%	ASTM D 395 B/1	70h / 200°C	21,5
Compression set	%	ASTM D 395 B/1	336h / 200°C	31
Low temp. resistance	°C	ASTM D 1329	TR10	-17
Bending test after 24h at -35°C	ok/nok	VW 2.8.1 p.38		pass

### Changes of properties after ageing

Medium	Test method	Time	Temperature	Hardness	Tensile strength	Ultimate elongation	Volume	Weight
		h	°C	Points	%	%	%	%
Air	ASTM D 573	70	260	+3	-19,4	-11,2		-2,4
Air	ASTM D 573	70	275	+5	-15	-19		-4
ASTM No 1	ASTM D 471	70	150	-1	+1	-15	+1	
Fuel B	ASTM D 471	168	25	+0	-14,8	-10,6	+1,9	
Fuel C	ASTM D 471	70	23	-3			+4	
B10 (Diesel+10%FAM E)	DIN 53521	70	23	-1,5			+1,1	
E10 (Fuel C + 10%Ethanol)	DIN 53521	70	23	-14,5			+16,5	
FAM B DIN 51604 B	DIN 53521	70	23	-10,5			+15,3	
Service fluid 101	ASTM D 471	70	200	-10	-20	+5	+15	
ASTM IRM 903	ASTM D 471	70	150	0	-13,4	-13,2	+1,9	

Specifications: BW WN 08.508 - HOLSET E4-01-5002 (rev.04-07/2009) - CUMMINS 23227 (REV. 005)  
BAM (150°C-30 bar Oxygen)

The above indicated data were determined to the best knowledge according to modern laboratory standards on standardised test specimen. If these data are compared with data which were determined on finished parts it may come to variations.