

# EPDM M534 EPDM 70 BLACK

## Norm of reference

ASTM D 2000 M3 DA 714 A26 B36 C32 EA14 F19 G21 \* DBL 6038.14(11/2011)\*DBL 5556.10 (03/2013) \* DBL 5556.20(10/2001) \* DBL 5556.21(10/2001) \* PN 707-2(10/2005) Categories 7-8 \* USP 32<87>(citotoxicity test 37° in vitro) \*

Samples Curing Conditions				
Dimensions of the sample	Curing		Postcuring	
	Time	°C	Time	°C
Testlabs 200 x 200 x 2 mm	12 minutes	177°C	4 times	160°C
Testlabs 200 x 200 x 6 mm	12 minutes	177°C	4 times	160°C
Buttons Ø 29,50 x 12,50 mm	12 minutes	177°C	4 times	160°C

Mechanical Properties			
Test	Reference norm	Unit	Tested value
Hardness	ASTM D 2240	Shore A	70
Specific gravity	ISO 2781 A	g/cm <sup>3</sup>	1,140
Tensile Strength	ISO 37	N/mm <sup>2</sup>	17
Elongation	ISO 37	%	220
Modul to 100%	ISO 37	N/mm <sup>2</sup>	4,5
Tear resistance	ISO 34-1 B	N/mm	11
Tear resistance	ISO 34-1 C	N/mm	30
Compression set 22+2 h a 125°C	ISO 815-1 Met. B	%	32
Compression set 22 h a 150°C	ISO 815-1 Met. A	%	13
Compression set 70 h a 150°C	ISO 815-1 Met. A	%	24
Compression set 70 h a 23°C	ISO 815-1 Met. A	%	9
Compression set 22 h a 100°C	ISO 815-1 Met. A	%	7
Compression set 70 h a 100°C	ISO 815-1 Met. A	%	10
Compression set 22 h a 125°C	ISO 815-1 Met. A	%	9
Compression set 168 h a 150°C	ISO 815-1 Met. A	%	44
Compression set 1000 h a 110°C(in H <sub>2</sub> O)	DVGW - W534	%	10,5
Compression set 2000 h a 110°C(in H <sub>2</sub> O)	DVGW - W534	%	15,5
Compression set 3000 h a 110°C(in H <sub>2</sub> O)	DVGW - W534	%	19,5
TR Test TR10	ISO 2921	°C	-42
TR Test TR50	ISO 2921	°C	-23
Brittleness	ISO 812	°C	-70
Glass Transition	DSC	°C	-55
Ozon resistance a 70h 40°C	ISO 1431-1	200pphm 50% all.	No brittle

**James Walker®**

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Change of Properties													
Medium	Time h	°C	Reference norm	Hardness Shore A		Tensile Strength %		Elongation %		Volume %		Weight	
				Rqd.	Tested	Rqd.	Tested	Rqd.	Tested	Rqd.	Tested	Rqd.	Tested
Air	70	100	ISO 188 B		+1		-8		-12		-0,1		-0,1
Air	70	125	ISO 188 B		+2		-15		-15		-0,2		-0,2
Air	70	150	ISO 188 B		+4		-25		-25		-0,4		-0,4
Water	70	100	ISO 1817		-1		-4		-7		+1,3		+1
Acetone	70	23	ISO 1817		-6						+5		+4
After drying	22	100	ISO 188 B		+1						-1		-0,5
Air	1008	125	ISO 188 B		+5		-6		-15		-1		
50:50 water:G48	1008	125	ISO 1817		-1		-4		-7		+2		+2

Range Temperature				
Low static	Low dinamic	Long Time	Short Time	Medium
-65°C	-45°C	+150°C	+160°C	Air, Water

With approval W270 dtd 23/05/16 issued by institute TZW + FDA n. 721-B/2012 del 17/12/12 by Cerisie + WRAS (hot and cold water) n.1308515 ddt 28/08/13 issued by WRAS + EN681.1 WB WD n. 05/053/5114/1 issued by DVGW + CLP n. 11 CLP NY 010 ddt 1/09/11 issued by I.P.L. (France) + UL778 n. MH28238 ddt 18/12/06 issued by UL Inc. + W534 DW-52538BQ4480 DATED 11/02/11 issued by DVGW + NSF STD61 Official Listing ddt 7/01/08 + KTW D1, D2 n.326/15 of 07/01/16 issued by institute TZW + 3-A Sanitary Standard Number 18-03 Class II n\* 626/2013 dated 17/10/13 issued by Cerisie + KIWA BRL-K17504 n. K80481/01 dated 01/12/2013 issued by KIWA + USP32<87>(citotoxicity tes at 37°C in vitro) Project n\* 123390 dated 30/04/2014 issued by Bioservice.