

EPDM/300				 - Part of Diploma PLC
Material Data Sheet	Compound	M534/Z534/EP703901	Rev.9	
	Designation	EPDM	03-2023	

Material type: Peroxide cured Ethylene Propylene 70 Shore A.

ASTM D2000: M3 DA 714 A26 B36 C32 EA14 F19 G21

Color: Black

Temperature Range: Min. -42°C Dynamic (Static -65°C)
Max. +150°C Long term (160°C short term)

Storage recommendation: According to ISO 2230

Complies with the following requirements:

FDA CFR21:177.2600 (e+f), (Extraction tested by independent laboratory)

USP Class VI <88> and USP <87> compliant

BGA-KTWD2 07.01.1977 - EN681.1 - DVGW W534-10.3 (DVGW cert. DW-5253CR0217)NSF61N

W270 / WRC (hot and cold water) -BS6920/WRAS- ACS No.06CLP – UBA Elastomer Guidelines 12-2011

3A Sanitary 18-03 Class II (Not recommended for milk fat concentrations higher than 8%)

D.M. 21/03/73

Physical Properties	Unit	Test method	Value
Hardness, Shore A	pts	D2240	71
Tensile strength	MPa	ISO 37	17
Ultimate Elongation	%	ISO 37	220
Specific gravity	g/cm ³	ISO 2781 A	1.14
Modulus 100%	N/mm ²	ISO 37	4,5
Tear resistance	N/mm	ISO 34-1 B	11
Tear resistance	N/mm	ISO 34-1 C	30

Aging in 70h in air at125°C

Change in Hardness	pts	ISO 188 B	+2
Change in Tensile strength	%	ISO 188 B	-15
Change in Ultimate Elongation	%	ISO 188 B	-15
Change in Ultimate Volume	%	ISO 188 B	-0,2

Compression set

22h at 150°C	%	ISO 815-1 Method. A	13
70h at 150°C	%	ISO 815-1 Method. A	24
22h at 100°C	%	ISO 815-1 Method. A	7
70h at 100°C	%	ISO 815-1 Method. A	10
22h at 125°C	%	ISO 815-1 Method. A	9
70h at 23°C	%	ISO 815-1 Method. A	9
1000h at 110°C (H2O)	%	DVGW-W534	10,5
2000h at 110°C (H2O)	%	DVGW-W534	15,5
3000h at 110°C (H2O)	%	DVGW-W534	19,5

Ozone Resistance, 200pphm, 70h at 40°C

Ozone Exposure	ISO 1431-1	No Cracks
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Water Resistance, 70h at 100°C

Change in Volume	%	ISO 1817	2
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Low Temperature Resistance

Brittleness	°C	ISO 812	-70
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EPDM/300 Fulfil the requirements of EU1935/2004: we refer to FDA test of Migration, Cerisie report no. 721-B/