


EPDM/300			 M SEALS <i>- Part of Diploma PLC</i>
Material Data Sheet	Compound	M534/Z534	
	Designation	EPDM	December 2015

Material type: Peroxide cured Ethylene Propylene 70 Shore A.

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-5253BQ4480)

NSF61N - W270 / WRC (hot and cold water) - ACS No.06CLP - 3A Sanitary 18-03 Class II(*)

*Not recommended for milk fat concentrations higher than 8%

Physical Properties	Unit	Test method	Value
Hardness, Shore A	pts	D2240	71
Tensile strength	MPa	ISO 37	17
Ultimate Elongation	%	ISO 37	200
Specific gravity	g/cm ³	ISO 2781 A	1.15
Modulus	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, Method B			
22h at 150°C	%	D395	13
70h at 150°C	%	D395	24
22h at 100°C	%	D395	7
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
Water Resistance, 70h at 100°C			
Change in Volume	%	ISO 1817	2
Low Temperature Resistance			
Brittleness	°C	ISO 812	-70

For FDA test of Migration, we refer to Cerise report no. 721-B/2012
According to EU 1935/2004