



MACHINERY and EQUIPMENT
Appliance, Gasket, light-colored

Washing machine gasket
35 Shore A, EPDM, sulfur cure

Guide formulation of EniChem (now Polimeri Europa)	1515-1
Dutral TER 4436	167.0
Stearic acid	1.2
Zinc oxide	6.0
Anox PP 18	1.2
Polyplastol 6	3.6
Titanium dioxide rutile	11.0
SILLITIN Z 86	121.0
Grundöl AP/E Core 2500 (ex Flexon 815)	39.0
Kagevest 25 (ex Polyvest 25)	2.4
Naugex MBT	2.4
Sulfur	0.7
Rhenogran CLD-80	1.2
Rhenogran TP-50	3.6
Total phr	360.3

Rheological properties

ML (1+4) 100°C	MU	23
ML (1+4) 125°C	MU	18
t ₅ 125°C	min	11.8
t ₃₅ 125°C	min	60.0

M. D. Rheometer 180°C (0.2°, gap 0.1 mm)

ts ₂	min	0.70
tC ₉₀	min	4.60
Mh	Nm	0.15
Ml	Nm	0.02
Mh-Ml	Nm	0.13
Rh	Nm/min	0.08
t _g delta minimum		0.21
t _g delta minimum		1.00



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Physical properties**Cure 30 min @ 160°C**

Density		g/cm ³	1.19
Hardness (after 5 s)	ASTM 2240	Shore A	37
Modulus 100 %		MPa	0.8
Modulus 200 %		MPa	1.5
Modulus 300 %		MPa	2.1
Tensile strength	DIN 53504	MPa	12.3
Elongation at break	DIN 53504	%	820

Air aging, 72 h @ 120°C

Hardness (after 5 s)		Shore A	43
Modulus 100 %		MPa	1.1
Modulus 200 %		MPa	2.2
Modulus 300 %		MPa	3.1
Tensile strength		MPa	9.5
Elongation at break		%	660

Δ Hardness		Shore A	+6
Δ Modulus 100 %		%	+38
Δ Modulus 200 %		%	+47
Δ Modulus 300 %		%	+48
Δ Tensile strength		%	-23
Δ Elongation at break		%, rel.	-20



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Immersion in demineralized water, 72 h @ 100°C

Density	g/cm ³	1.17
Hardness (after 5 s)	Shore A	37
Modulus 100 %	MPa	0.9
Modulus 200 %	MPa	1.6
Modulus 300 %	MPa	2.2
Tensile strength	MPa	11.1
Elongation at break	%	730

Δ Density	%	-2
Δ Weight	%	0
Δ Volume	%	+2
Δ Hardness	Shore A	0
Δ Modulus 100 %	%	+12
Δ Modulus 200 %	%	+7
Δ Modulus 300 %	%	+5
Δ Tensile strength	%	-10
Δ Elongation at break	%, rel.	-11

Immersion in detergent solution: phosphate-free Persil powder, 10 g/l, 72 h @ 95°C

Density	g/cm ³	1.17
Hardness (after 5 s)	Shore A	37
Modulus 100 %	MPa	0.8
Modulus 200 %	MPa	1.5
Modulus 300 %	MPa	2.1
Tensile strength	MPa	8.9
Elongation at break	%	750

Δ Density	%	-2
Δ Weight	%	0
Δ Volume	%	+2
Δ Hardness	Shore A	0
Δ Modulus 100 %	%	0
Δ Modulus 200 %	%	0
Δ Modulus 300 %	%	0
Δ Tensile strength	%	-28
Δ Elongation at break	%, rel.	-9

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