

CONSTRUCTION INDUSTRY

Flooring, light-colored

Flooring for sports ground

70 Shore A, EPDM, sulfur cure

Guide formulation of Akzo	RAL 4953.6
Keltan 578Z)*	100.0
Stearic acid	1.5
Zinkoxyd aktiv	5.0
SILLITIN N 85	120.0
Process Oil P 460 (ex Sunpar 2280)	10.0
TMQ	2.0
Vulkanox MB	1.0
PEG 4000	4.0
CBS	1.8
TMTD	1.0
ETU	0.7
Sulfur	2.5
Total phr	249.5

)* No longer available. Recommended: Keltan 5470 or Keltan 5470Q

Mooney Viscosity

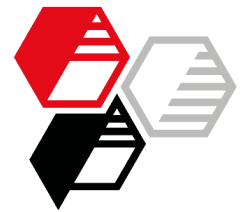
ML 121°C	DIN 53523	MU	47
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Mooney Scorch

ML 121°C	DIN 53524	min	14.8
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Monsanto Rheometer TM 100, ± 3°, 180°C

t _i	min	0.80
t ₅	min	1.32
t ₉₀	min	11.80
t ₁₀₀	min	28.08
Delta S	Nm	5.82



RAL 4953.6

Physical properties**Press cure 12 min @ 180°C**

Density		g/cm ³	1.35
Hardness	DIN ISO 7619-1	Shore A	72
Modulus 100 %	ISO 37/2, S1	MPa	2.3
Modulus 300 %	ISO 37/2, S1	MPa	3.5
Tensile strength	ISO 37/2, S1	MPa	9.1
Elongation at break	ISO 37/2, S1	%	465
Rebound	DIN 53512	%	40
Tear resistance (Graves)	DIN ISO 34-1, B	N/mm	9.3

Air aging, 1 d @ 120°C

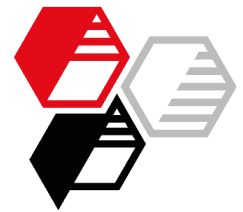
Hardness		Shore A	75
Modulus 100 %		MPa	3.1
Modulus 300 %		MPa	4.9
Tensile strength		MPa	7.4
Elongation at break		%	370
Rebound		%	46
Tear resistance		N/mm	9.1

Air aging, 4 d @ 120°C

Hardness		Shore A	78
Modulus 100 %		MPa	4.1
Tensile strength		MPa	6.7
Elongation at break		%	305
Rebound		%	41
Tear resistance		N/mm	8.6

Air aging, 7 d @ 120°C

Hardness		Shore A	79
Modulus 100 %		MPa	5.0
Tensile strength		MPa	7.0
Elongation at break		%	255
Rebound		%	40
Tear resistance		N/mm	10.4



RAL 4953.6

Aging: 24 h UV + 72 h ozone (100 pphm) @ 40°C

Hardness	Shore A	70
Modulus 100 %	MPa	2.3
Modulus 300 %	MPa	3.7
Tensile strength	MPa	3.8
Elongation at break	%	315
Rebound	%	46
Tear resistance	N/mm	10.2

Aging: 48 h UV + 144 h ozone (100 pphm) @ 40°C

Hardness	Shore A	73
Modulus 100 %	MPa	2.5
Tensile strength	MPa	3.7
Elongation at break	%	275
Rebound	%	46
Tear resistance	N/mm	10.0

Aging: 72 h UV + 216 h ozone (100 pphm) @ 40°C

Hardness	Shore A	70
Modulus 100 %	MPa	2.4
Tensile strength	MPa	3.4
Elongation at break	%	285
Rebound	%	45
Tear resistance	N/mm	10.4

Our applications engineering advice and the information contained in this formulation are based on experience and are made to the best of our knowledge and belief, they must be regarded however as non-binding advice without guarantee. Working and employment conditions over which we have no control exclude any damage claim arising from the use of our data and recommendations. Furthermore we cannot assume any responsibility for patent infringements, which might result from the use of our information.