



MACHINERY and EQUIPMENT

Roller cover, light-colored

60 Shore A, EPDM, sulfur cure

Guide formulations of Degussa (now Evonik)	RRS 22	RRS 23
Keltan 578Z)*	100.0	100.0
Coupsil (base VN3 with 15 % thiocyanato silane)	---	34.0
Ultrasil VN 3	30.0	---
SILLITIN Z 86	60.0	60.0
Zinc oxide RS	5.0	5.0
Stearic acid	1.0	1.0
Process Oil P 460 (ex Sunpar 2280)	60.0	60.0
Koresin	2.0	2.0
PEG 6000	5.0	5.0
CBS	2.0	2.0
ZBEC	---	3.0
Rhenogran CUT-50	---	1.0
TMTD	1.0	---
ZDBC	2.0	---
ZEPC	1.0	---
Sulfur	0.8	0.8
Total phr	269.8	273.8

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

Mooney Viscosity

ML (1+4) 100°C	MU	42	39
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Mooney Scorch

MS (t ₅) 130°C	min	12.5	9.4
MS (t ₃₅) 130°C	min	20.2	16.2

Rheometer, 160°C

M _{HF} - M _L	Nm	6.31	5.91
M _L	Nm	0.47	0.41
t _{95%}	min	15.3	11.3
t _{90%} - t _{10%}	min	5.0	4.5



RRS 22

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Physical properties**Cure 18 min @ 160°C**

Hardness	DIN ISO 7619-1	Shore A	58	62
Tensile strength	DIN 53504, RI	MPa	11.9	11.9
Modulus 300 %		MPa	1.8	3.4
Elongation at break		%	690	670
Rebound	DIN 53512	%	56	58
Abrasion	DIN ISO 4649	mm ³	309	285

Compression set

22 h @ 70°C	ASTM D 395 B	%	20	13
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Air aging, 7 d @ 120°C

Hardness		Shore A	66	66
Tensile strength		MPa	11.6	12.4
Modulus 300 %		MPa	4.0	5.4
Elongation at break		%	560	520
Rebound		%	61	60
Abrasion		mm ³	288	266
Compression set, 22 h @ 70°C		%	11	9

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