

SPECIAL TOPICS

Elastomer component in TPE-V, low filler content

Substitution of tin(II) chloride dihydrate

EPDM, resin cure

	Reference	Control without SnCl ₂	Recommendation without SnCl ₂
Guide formulations of HOFFMANN MINERAL	M 575.1/1	M 575.3/3	M 575.1/4
Buna EP G 3569 LF)*	200	200	200
Zinkoxyd aktiv	5	5	5
SP-1056	5	5	5
Tin(II) chloride dihydrate crystalline	1	---	---
Vulkalent E/C	---	---	1
SILLITIN V 85 oder SILLITIN V 88	20	20	20
Total phr	231	230	231
Density g/cm ³	0.94	0.94	0.94

)* No longer available. Recommended: 175 phr Keltan 4577 + 25 phr paraffin oil

Mooney Viscosity

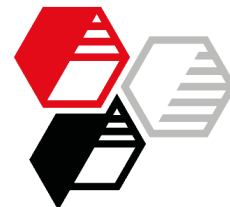
ML (1+4) 120°C	DIN 53523, T3	MU	24	25	23
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Mooney Scorch

ML (5 MU) 120°C	DIN 53523, T4	min	25	82	68
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Rotorless curemeter, 200°C

Mmin	DIN 53529, T3	Nm	0.029	0.030	0,026
Mmax	DIN 53529, T3	Nm	0.243	0.179	0,254
t ₅	DIN 53529, T3	min	0.5	0.6	0,7
t ₉₀	DIN 53529, T3	min	5.4	4.8	7,2



Reference	Control without SnCl ₂	Recommendation without SnCl ₂
M 575.1/1	M 575.3/3	M 575.1/4

Physical properties**Press cure @ 200°C**

			5.9 min	5.3 min	7.9 min
Hardness	DIN ISO 7619-1	Shore A	21	19	22
Hardness (piled S2 specimen)	DIN ISO 7619-1	Shore A	22	23	23
Modulus 50 %	DIN 53504, S2	MPa	0.3	0.3	0.3
Modulus 100 %	DIN 53504, S2	MPa	0.4	0.4	0.4
Modulus 200 %	DIN 53504, S2	MPa	0.5	0.5	0.5
Modulus 300 %	DIN 53504, S2	MPa	0.7	0.7	0.6
Modulus 500 %	DIN 53504, S2	MPa	1.0	1.0	1.0
Tensile strength	DIN 53504, S2	MPa	1.2	1.5	1.1
Elongation at break	DIN 53504, S2	%	550	730	530
Rebound	DIN 53512	%	70	70	69
Tear resistance	DIN ISO 34-1, A	N/mm	1.5	2.1	1.7
Tear resistance (Graves)	DIN ISO 34-1, B	N/mm	3.8	4.2	3.3
Compression set 24 h @ 100°C, 25 % deflection	DIN ISO 815, B	%	16	32	16

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