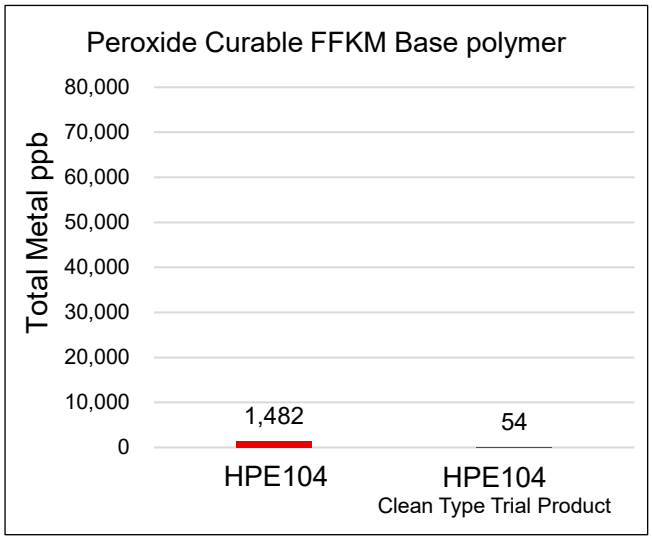
Technical Information Sheet

ELTAS™ HPE Series

Inorganics Content (ICP-MS)

Peroxide Curable FFKM Base Polymer Product



Inorganics elements: Total of 30 elements

Raw gum properties [ISO 1183, ISO 289]

Appearance		Opaque white or Translucent	
Mooney Viscosity ML 1+10 @ 121°C	pts	40	40

Test Compound Formulation

ELTAS™ HPE104	phr	100	-
ELTAS™ HPE104 Clean Type Trial Product	phr	-	100
N990 Carbon black	phr	10	10
Triallyl isocyanurate:60% active*1	phr	3.5	3.5
2,5-Dimethyl-2,5-Di(t-butylperoxy)hexane:40% active*2	phr	2	2

* TAIC WH60: Triallyl isocyanurate / White filler =60/40

** Perhexa 25B40:2,5-Dimethyl-2,5-Di(t-butylperoxy) hexane / White filler=40/60

Initial properties [ISO 37, ISO 7619-1, ISO 34-1]

Press Cure:160°C /10min, Post Cure :200°C /6hrs

Hardness, Duro A, peak	Duro A	74	74
Tensile strength	MPa	20.2	19.8
Elongation	%	160	150

Compression set[1]

[ASTM D1414/D395] [Method B][P-24 Oring]

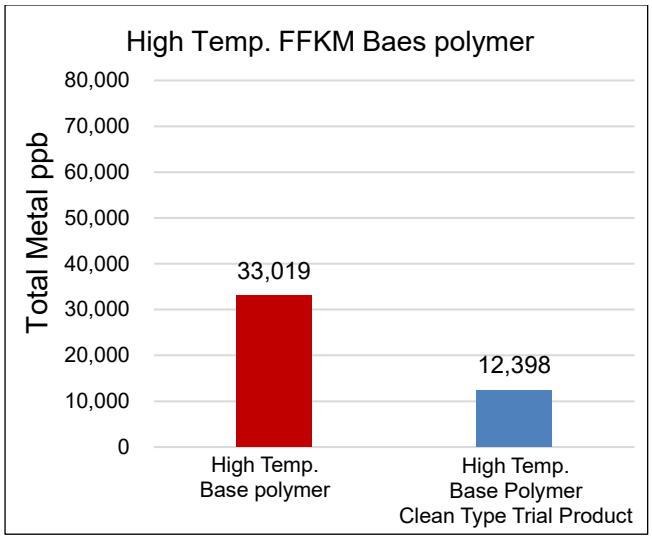
200°C /70 hrs	%	14	TBA
230°C /70 hrs	%	48	TBA

[1] At room temp. 25% compression

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Technical Information Sheet

High Temp. FFKM Base Polymer Product



Inorganics elements: Total of 30 elements

Raw gum properties [ISO 1183, ISO 289]

Appearance		Opaque white or Translucent	
Mooney Viscosity ML 1+10 @ 121°C	pts	>100	TBA

Test Compound Formulation

ELTAS™ High Temp. Base Polymer	phr	100	-
ELTAS™ High Temp. Base Polymer, Clean Type Trial Product	phr	-	100
N990 Carbon black	phr	10	10
BOAP	phr	1.4	1.4

Initial properties [ISO 37, ISO 7619-1, ISO 34-1]

Press Cure:220°C /15min, Post Cure: Step cure* Refer to below

Hardness, Duro A, peak	Duro A	74	TBA
Tensile strength	MPa	23.0	TBA
Elongation	%	180	TBA

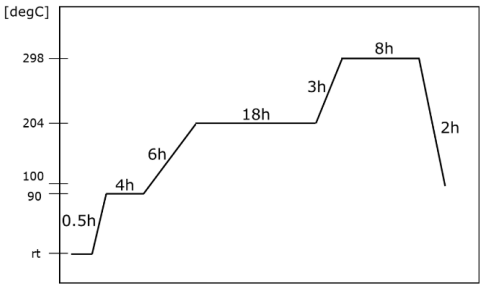
Compression set[1] [ASTM D1414/D395] [Method B][P-24 Oring]

275°C /22 hrs	%	12	TBA

[1] At room temp. 18% compression

*Step cure condition in N_2 atmosphere (Total: 41.5h)

1. 0.5h at rt to 90℃
2. 4h at 90℃
3. 6h at 90℃ to 204℃
4. 18h at 204℃
5. 3h at 204℃ to 298℃
6. 8h at 298℃
7. 2h at 298℃ to 100℃



This information corresponds with the state of our knowledge at the time of printing and is intended to give information of possible applications to a reader with technical experience. The assurance of properties, product responsibility or guarantee are impossible without our clarification as to the specific applications of use and service conditions.

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