

Compri-hexflame 45-1000 (HL3) / EN45545-2 und Compri-hexflame 45-7000 (HL2) / EN45545-2

Compact and Sponge Rubber Sealants



Product Information

The Compri-hexflame 45-1000 sealant easily fulfils the requirements of the European standard EN45545 in category HL3 for R22/R23. Compri-hexflame 45-7000 is also subject to the EN45545 standard in category HL2 for R22/R23. The materials are compact rubber (50, 60 and 70° Shore A).

Function / Application Area

Compri-hexflame 45-1000/7000 fulfils high fire protection requirements and was specially developed for the rail vehicle, automotive and electrical industries. The sealant is mainly used for heat and sound insulation, vibration damping, as well as for protection against dust, moisture and draughts.



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Mixture: HexFlame 45-1000 Specification: EN 45545-2, Class R22/R23 HL3, UL 94 V, DIN 5510-2, NF F 16-101, ECE-R118, NFPA 130, BS 6853

Technical Data

Characteristics	Traget Value	Test Result	Method
Elastomer	EPDM	EPDM	DIN ISO 1629
Crosslinking		Sulfur	
Colour	Black	Black	
Density	-	Ca. 1,51 g/cm³	EN ISO 1183
Hardness	60 +/- 5 SH A	64 SH A	DIN ISO 7619-1
Tensile strength	-	Ca. 5 N/mm²	DIN 53 504
Elongation at break	-	> 400 %	DIN 53 504
Tear resistance	-	Ca. 5 N/mm	DIN ISO 34-1 A
Compression set 24 h / 70 °C	-	16 %	ISO 815
24 h / 100 °C	-	38 %	ISO 815
Ozone resistance 168 h / 40°C / 50 pphm	No cracks	No cracks	DIN ISO 1431-1
Nitrosamine-free	No raw materials are used that form carcinogenic nitrosamines.		
Halogen-free	Halogen-free (< 0,02 %)		
REACH/SVHC conformity	Complies		
EN 455 45 Classification (2016)		R22/R23, HL3	EN 45545-2
Smokeproof / Gasanalysis	Max. 150 (HL3)	57 Ds max	EN ISO 5659-2
Oxygen Index	Min. 32 % (HL3)	36 %	ISO 4589-2
Toxicity	Max. 0,75 CIT NLP (HL3)	0,12	NF X 70-100-1 NF X 70-100-2
DIN 5510 Classification		S4-SR2-ST2	DIN 5510-2
Fire test		S4-SR2-ST2	DIN 548 37
Toxicity (2+6 mm)	< 1 FED tzul = 15 < 1 FED tzul = 30	0,04/0,04 FED tzul = 15 0,08/0,1 FED tzul = 30	DIN EN ISO 5659-2
UL 94 V fire test	< 1 FED (201 – 30	0,08/0,1 FED (201 - 30	
3 und 6,5 mm Thickness	-	V-0	UL 94 V
ECE-R118 sppendix 8			
Vertikal check, 2 mm	< 100 mm/min	0 mm/min	ECE-R118
NF F 16-101 Classification		F1-I2	NF F 16 101
Smokeproof	< 20 (F1) IF	10 IF	NF X 10-702
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All data are laboratory values, which may differ in practice and therefore they are no guarantees of a particular property. The variety of details and combinations may not be dealt with in this leaflet. The user is responsible to inform him accordingly. A specific work results cannot be guaranteed due to the unmanageability of the processing conditions. Own tests to ensure the desired results are expressly advised. Previous editions are no longer valid. Delivery is solely subject to our General Delivery and Payment Conditions. We reserve the right to alter the product subject to the technical progress or new developments (March 2022).

Datasheet Compri-HexFlame EN 45545-2 V01



Gasanalysis NF X 70-100

Characteristics	Target Vlue	Test Result	Method
Oxygen Index	> 32 % (I2)	36,1 %	ISO 4589-1/-2
Glow Wire	Min. 850 °C	960 °C	NF EN 60695-2-10/11
NFPA 130 Classification	ASTM C1166, ASTM E662, SMF	9 800-C	
Flame spread	Max. 4 In/min	1,6 In/min, kein Schmelzen/Tropfen	ASTM C 1166-06
Smoke proof		·	ASTM E 662-15
nach 1,5 minutes	Max. 100	40	Flaming mode
nach 4,0 minutes	Max. 200	64	Flaming mode
Toxicity		Erfüllt	SMP 800-C
British Standard BS 6853 Classification	Table 7 C	at. II	
Oxygen Index (cat. II)	Min. 28 %	37,9 %	ISO 4589-2 10 mm
Smoke proof (cat. II)	Max. $0,061 A_0 m^2/g$	$0.033 A_0 m^2/g$	BS 6853 Annex D.8.3:
Toxicity (cat. II)	Max. 3,6 R	0,4 R	BS 6853 Annex B.1
Calorific value	-	22,61 MJ/kg	ISO 5660-1 Cone
Gas transition temperature	-	- 64 °C	BMW GS 97036
Elect. contact resistance	-	1,5E+14 Ohmcm	IEC 60093
Operating temperature range	-	-40 / +100 °C	-
Cold-break temperature	-	-47 °C	ASTM D 2137 A

The results were determined on vulcanised (10 min/180 °C) test panels.

Mixing properties, uncrosslinked	Target Value	Test Results	Method
Mooney Viskosität ML 1+4 100 °C	-	62 MU	ISO 289-1
Mooney Scorch 130 °C			ISO 289-1
Viskosität	-	44 MU	
T5	-	6 min	
Rheologie MDR 2000 0,5° 1,67 Hz 3′180 °C			ISO 6502
ML	-	1,65 dNm	
МН	-	13,5 dNm	
T5	-	0,6 min	
T10	-	0,75 min	
TS2	-	0,9 min	
T90 wir machen dicht!	-	2,20 min The Original. Q u	ality since 1963.

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Mixture: HexFlame 45-7000 Specification: EN 45545, Class R22/R23 HL2

Technical Data

Characteristics	Target Value	Test Result	Method
Elastomer	EPDM	EPDM	
Crosslinking		Sulfur	
Colour	Black	Black	
Density		Ca. 0,8 g/cm³	VDA 675 106
Hardness		N.s.	VDA 675 102
Tensile strength		Keine Prüfung	VDA 675 205
Elongation at break		Keine Prüfung	VDA 675 205
Compression set 22 h / 70 °C		Keine Prüfung	VDA 675 217
Ozone resistance		Beständig	VDA 675 311
Nitrosamine-free	No raw materials are used that form carcinogenic nitrosamines.		
Halogen-free	Halogen-free		
Fire test	CREPIM report 1445/05/185 A		EN 455 45
Smoke proof	< 300 Ds max (HL2)	102,35	ISO 5659-2
Oxygen index	> 28 % (HL2)	31,1 %	ISO 4589-2
Gasanalyssis	< 0,9 CIT NLP (HL2)	0,54 CIT NLP	NF X 70-100-1/-2 600°C

The results were determined on vulcanised (10 min/180 °C) test panels.

This material is available as stripes or rolls.

An adhesive can be applied according to the requirement by the costumer.

This information only relates to the rubber foam material and not to the adhesive or the adhesive property.

All mentioned data are guideline values. A commitment cannot be deducted.



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 $^{{}^*\}mathsf{The}$ tests are accomplished for certain thicknesses, please refer to the corresponding certificate.