



Low Smoke Low Toxic EPDM 60° Shore

Approved to Rail Industry EN 45545-2 : 2013 + A1 : 2015

HL3 for R22, R23, R24, R25, R26 requirements. Quality No. H 45 - 1000.

Complies with Ministry of Defence Standard 07-247 Iss 3.

Building Construction Standard EN 13501-1

Fire Classification of construction products & building elements

MECHANICAL PROPERTIES		
Colour	Black	
Hardness	60° Shore A ± 5°	DIN ISO 7619-1
Density	1.51 g/cm ³ approx.	EN ISO 1183
Tensile Strength	ca 5N/mm ²	DIN 53 504 / ISO 37
Elongation @ Break	> 400%	DIN 53 504 / ISO 37
Tear Strength	ca 5N/mm	DIN ISO 34-1 A
Compression Set (24hrs @ 70°C)	16%	ISO 815
Compression Set (24hrs @ 100°C)	38%	ISO 815
Electrical Volume Resistivity	1.5E +14 ohm cm	IEC 60093
Ozone Resistance: 168h/40°C/50pphm/20% elongation	Result: No cracks	DIN ISO 1431-1
Service Temperature Range	-40 to +100°C	
No carcinogenic nitrosamine generating raw materials are used.		

1mm to 6mm - Calendered Sheet c/w Fine Fabric Surface Finish - Rolls: 1600mm wide x 10m long

10mm – Calendered Sheet c/w Fine Fabric Surface Finish - Rolls: 1500mm wide x 10m long (not suitable for horizontal slitting)

(Smooth Surface Finish available - made to order)



(<0.02%)



continued...

Dimensional Tolerances: are typically class 3 as standard, unless otherwise stated. Class 2 and Class 1 tolerances on request, in most instances.

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Certificate No. RS 27920



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Rail Industry

EN 45545-2 : 2013 + A1 : 2015

EN 45545-2+A1 supercedes DIN 5510-2 Classification, NF F 16-101 Class F1-I2 and British Standard BS 6853 which were all correct at the last date of issue.

NORM	STANDARDS	STATUS
EN 45545-2 : 2013 + A1 : 2015 Set Requirements R22/R23/R24/R25/R26 Hazard Level HL3	ISO 5659-2 ISO 4589-2 NF X 70-100-1 NF X 70-100-2 NF F16-101 (Glow Wire Test Acc. EN 60695-2-10/11)	PASS ✓ Last test date 30/07/2019
UL94 V(0)	V (0) Vertical Burn Test (equivalent to: EN 60695-2-11-10)	PASS ✓
NFPA 130 (2019) Hazard Rating System	ASTM C1166 ASTM E662 ASTM E1354 SMP 800-C Boeing BSS 7239	PASS ✓
United Nations Regulation UN-R118.02 item 6.2.3	Vertical Burn Test Horizontal Burn Test FMVSS 302 item S4.3 (a) & CMVSS 302, item 1 EN ISO 17025:2005	PASS ✓

Defence Standard 07-247

To satisfy the requirements of the Ministry of Defence Standard (DEF-STAN) 07-247 Issue 3, J-Flex H 45-1000 EPDM 60° has been tested & certified in accordance with the References listed in Table A1-2 : Primary Fire Characteristics Tests.

Conclusions:

Following the definitions detailed in DEF-STAN 07-247 Issue 3 - Table A1-6 Test Requirements by Material Type, J-Flex H 45-1000 EPDM 60° has been tested, certified & complies with :-

Group 2

System Materials - Sub-Division 5
"Rubber, natural & synthetic".

Group 3

Habitability Materials - Sub-Division 1
"Deck Coverings".

TEST No.	REFERENCE	STATUS
P3	UL 94 V(0)	PASS ✓
P4	BS EN ISO 4589-2	PASS ✓
P5	BS EN ISO 4589-3	PASS ✓
P6	Def-Stan 02-711	PASS ✓
P7	Def-Stan 02-713	PASS ✓
In addition the material was tested & certified to :-		
Surface Spread of Flame	BS 476 Part 7 - Class 2	PASS ✓
Fire Propagation	BS 476 Part 6 - I = 9.6	PASS ✓

Building Construction

Meeting the requirements of EN 13501-1.

* The classification was carried out according to the chapter 11 of DIN EN 13501-1.

NORM	STANDARDS	STATUS
Classification of the burning behaviour*	According to EN 13501-1 (2019-05)	PASS ✓
Verification of fire behaviour**	EN ISO 9239-1 (Nov 2010) EN ISO 11925-2 (Feb 2011)	PASS ✓

** The tested material is ranked into the class **Bfl** related to its behaviour in case of fire. Concerning the smoke development the tested material is ranked into the class **s1**. The classification of the tested material therefore reads: **Bfl-s1**

Individual Test Reports available on request

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