

# Flame Resistant, Low Smoke, Low Toxicity VAMAC® Ethylene Acrylic Elastomer (AEM)

PROPERTY	TEST METHOD	UNIT	RESULTS
Hardness (micro)	BS ISO 48	I.R.H.D.	65
Tensile Strength	BS ISO 37	MPa	6.4
Elongation at Break	BS ISO 37	%	159
Density	BS ISO 2781	g/cc	2
Volume Resistivity	BS 2044	Ω/m	1.5 x 10 <sup>11</sup>
<b>UV Aged</b>			
<b>BS EN ISO 4892-3</b>			
Hardness Change	-	I.R.H.D.	11
Tensile Change	-	% Change	8
Elongation Change	-	% Change	-44
Colour Change	-	Delta E	19.1
<b>DMA -15°C to 55°C</b>			
BS ISO 4664-1		No transitions detected	
Abrasion Loss	BS ISO 4649	mm <sup>3</sup>	386

Evaluation and Test Report Conducted by Smithers (R.A.P.R.A.). Technical Report No. 63681 Iss. 01 - 1st July 2020.

## Flammability, Smoke & Toxicity Testing

### APPROVED TO LUL - T0536 - SE 958

Tests carried out by Warringtonfire.

428478 - 18/6/20 | 428476 - 28/5/20 | 428477 - 13/5/20

In addition, Tests carried out by Warringtonfire:-

428479 - 15/5/20 - BS 476: Part 6 - Fire Propagation for Products

428480 - 15/5/20 - BS 476: Part 7 - Surface Spread of Flame

PARAMETER	TEST	STATUS
Flammability	EN ISO 4589-2 (LOI)	PASS ✓
Smoke	ISO5659-2 (25kW + pilot flame)	PASS ✓
Toxic Fume	NFX 70-100	PASS ✓

### Independent testing

to evaluate compliance of J-Flex Vamac® EA1B Grade to EN 45545-2 (R22/R23) was carried out by Interscience Fire Laboratory.

### Test Results available on request on a confidential basis.

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TEST METHOD	PARAMETER	TEST RESULT	EN 45545-2 REQUIREMENTS		
			HL1	HL2	HL3
EN ISO 4589-2	Oxygen Index (%)	52.9	Minimum	PASS ✓	
EN ISO 5659-2 25kW/m <sup>2</sup>	Ds (maximum)	2.59	Maximum	PASS ✓	
NFX 70-100 - 1&2 (600°C)	CIT <sub>NLP</sub>	0.012	Maximum	PASS ✓	

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