

# Low Smoke Low Toxic EPDM

## 60° Shore

In accordance with:

- EN 45545-2: HL3 for R22, R23, R24 requirements <sup>1</sup>
- EN 13501-1: Reaction to fire classification: Bfl-s1 <sup>2</sup>



SPECIFICATIONS/PROPERTIES	SPEC. LIMITS	RESULTS	TEST METHOD
Polymer		EPDM	BS ISO 1629
Curing System	-	Sulphur	-
Colour		Black	-
Specific Gravity		approx. 1.50 g/cm <sup>3</sup>	BS ISO 1183
Hardness	60 ±5	64 Shore 'A'	BS ISO 48
Tensile Strength	-	ca. 5 N/mm <sup>2</sup>	BS ISO 37
Elongation at Break	-	>350%	BS ISO 37
Tear Strength	-	ca. 5 N/mm	BS ISO 34-1
Compression Set (24hrs @ 70°C)	-	20%	BS ISO 815
Compression Set (24hrs @ 100°C)	-	40%	BS ISO 815
Ozone Resistance: 168h/40°C/55pphm/20% elongation		No cracks	BS ISO 1431-1
Nitrosamine Generating		No carcinogenic nitrosamine generating raw materials are used	
Halogen Free	-	Non-halogen (<0.02%)	-
REACH/SVHC compliant	-	compliant	

EN 45545 Classification (2016) EN-45545-2			class R22, 23, 24 HL3
Smoke Density	max. 150 (HL3)	57 Ds max	EN ISO 5659-2
Limiting Oxygen Index LOI	32% min (HL3)	32.8%	ISO 4589-2
Toxicity	max. 0.75 (HL3)	0.16 CIT NLP	NF X 70-100-1 NF X 70-100-2

Electrical Volume Resistivity	-	1.5E +14 Ohmcm	IEC 60093
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Service Temperature Range	-	-30°C to +100°C	-
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Low Temperature Brittleness Point	-	-35°C	-
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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 1600mm wide x 5m long (not suitable for horizontal slitting).

Smooth Surface Finish available – made to order

<sup>1</sup> Test results were determined on vulcanised (10min/180°C) test sheets

<sup>2</sup> Test results were determined on calendered sheet (4mm)

**NITROSAMINE  
FREE** ✓

**HALOGEN  
FREE** ✓

**ROHS REACH SVHC  
COMPLIANT** ✓

(<0.02%)

**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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**J-FLEX Rubber Products**

Units 1 & 2, London Road Business Park, Retford, Nottinghamshire, DN22 6HG, United Kingdom

tel: +44 (0) 1777 712400 email: sales@j-flex.com web: www.j-flex.com

