

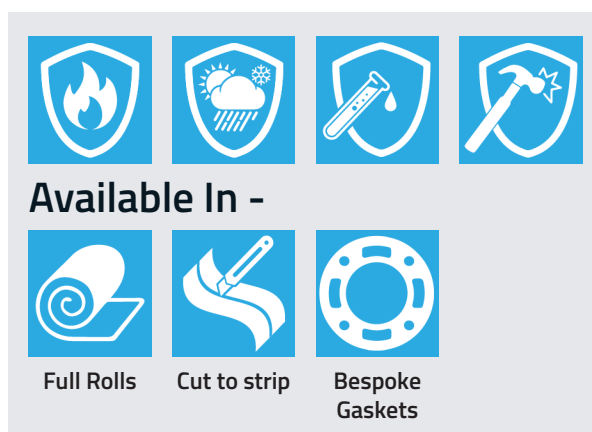
## FR EPDM Sheetting EN45545-2 Material Datasheet

Product Code: RC0365

### Product Description

Our flame retardant EPDM sheetting is manufactured in order to fully conform to EN45545-2 European Railway standards. This particular sheetting material is completely halogen free. It features excellent ozone resistance as well as moderate resistance to dilute acids and bases. It also provides low smoke release and low toxicity.

### Technical Specification



Properties	Test Method	Values
Product	-	Flame Retardant Sheetting
Compound	-	EPDM
Hardness (Shore A)	ASTM D2240	70° ± 5°
Density (Specific Gravity)	ASTM D297	1.45 g/cm <sup>2</sup>
Tensile Strength	ASTM D412	70 kg/cm <sup>2</sup>
Elongation at Break	ASTM D412	400%
Tear Resistance	ASTM D624	20 kg/cm
Compression Set (24hrs @ 70°C)	ASTM D395 Method B	25%
Working Temperature Range	-	-30°C to + 100°C
Fire Resistance	BS 476, PART 7 VEHICLE CAT. LA ACC. TO BS 6853	CLASS 2
Ozone Resistance (200 PPHM 96hrs @ 40°C)	ASTM D 1149	No Cracks
<b>Heat Ageing (168hrs @ 85°C )</b>		
Change in Hardness	ASTM D573	+10°
Change in Tensile Strength	ASTM D573	+15 / -15%
Change in Elongation at Break	ASTM D573	+10 / -30%

The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.

Properties	Test Method	Values
<b>Chemical Resistance</b>		
Dilute Acids and Bases	-	Good
Concentrated Acids and Bases	-	Medium
Oils	-	Medium

## Warrington Fire Test for Determination of Burning Behaviour of Flooring

Part 1 Determination of the Burning Behaviour Using a Radiant Heat Source

**BS EN ISO 9239-1 2010**

**Objective:** To Determine the performance of the following product when tested in accordance with BS EN ISO 9293-1: 2010

Generic Description	Product Reference	Thickness	Weight Per Unit Area
Rubberised Floor Covering For Use in Railway Coaches & Metro Coaches Adhered to a Birch Plywood Substrate	ICF/MD/SPEC-354 (Flooring Only)	14.89MM	9.80KG/M <sup>2</sup>
<b>Individual Components Used to Manufacture Composite</b>			
Rubber Flooring	ICF/MD/SPEC-354	2mm	2.5-3.4kg/m <sup>2</sup>
Adhesive	Adhesive Fevicol SR 998 IS & Fevicol Hardner C	Unwilling to provide	Unwilling to provide
Plywood	Birch Plywood (WBP Grade)	12mm	Unable to provide

### Test Results:

Orientation of test specimens: No Direction  
Average critical radiant flux = 8.05W/M<sup>2</sup>  
Average smoke development = 28.92% Min

## Warrington Fire Test for Determination of Burning Behaviour of Flooring

Part 2 Determination of Optical Density by a Chamber Method and "T11:02" ( Gas Analysis in the Smoke Box ISO, Using FTIR Technique)

**EN 45545-2: 2013 + A1: 2015**

**Objective:** To Assess the results of tests performed in accordance with methods T04, T10.03 and T11.02 as defined in EN45545-2: 2013 + A1:2015 at and irradiance level of 25W/m<sup>2</sup> with a pilot flame, on specimens of a product and to provide an opinion of compliance with the requirements, as defined in EN 45545-2: 2013 + A1: 2015.

The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.

Generic Description	Product Reference	Thickness	Weight Per Unit Area
Rubberised Floor Covering For Use in Railway Coaches & Metro Coaches Adhered to a Birch Plywood Substrate	ICF/MD/SPEC-354 (Flooring Only)	14.89MM	9.80KG/M <sup>2</sup>
Individual Components Used to Manufacture Composite			
Rubber Flooring	ICF/MD/SPEC-354	2mm	2.5-3.4kg/m <sup>2</sup>
Adhesive	Adhesive Fevicol SR 998 IS & Fevicol Hardner C	Unwilling to provide	Unwilling to provide
Plywood	Birch Plywood (WBP Grade)	12mm	Unable to provide

**Opinion:** We consider the results of the tests confirmed in reports referenced 413221 and 413222 to the test methods detailed above demonstrate that the product as tested, complies with requirements, R10 ( detailed in table 5 of EN 45545-2: 2013 + A1: 2005) for a HL1, HL2 and HL3 hazard level classification.

## Warrington Fire Test for Determination of Burning Behaviour of Flooring

Part 2 Determination of Optical Density by a Chamber Method and "T11:02" ( Gas Analysis in the Smoke Box ISO, Using FTIR Technique)

**EN 45545-2: 2013 + A1: 2015**  
**Test Methods T10.03 & T11.02**

**Objective:** To determine the toxic fume and optical density produced from the following product when tested in accordance with methods T10.03 and T11.02 as defined in BS EN 45545-2:2013 + A1: 2015 at an irradiance level of 25kW/M<sup>2</sup> with a plot flame.

Generic Description	Product Reference	Thickness	Weight Per Unit Area
Rubberised Floor Covering For Use in Railway Coaches & Metro Coaches Adhered to a Birch Plywood Substrate	ICF/MD/SPEC-354 (Flooring Only)	14.89MM	9.80KG/M <sup>2</sup>
Individual Components Used to Manufacture Composite			
Rubber Flooring	ICF/MD/SPEC-354	2mm	2.5-3.4kg/m <sup>2</sup>
Adhesive	Adhesive Fevicol SR 998 IS & Fevicol Hardner C	Unwilling to provide	Unwilling to provide
Plywood	Birch Plywood (WBP Grade)	12mm	Unable to provide

### Summary of Test Results:

The average Ds(max) value determined within 10 minutes was 137

The average CIT value at four minutes was 0.10

The average CIT value at eight minutes was 0.23

The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.