

# REDDIPLEX GROUP PLC

EXPORT ABTEILUNG: SERVICE EXPORT: DIVISION DE EXPORTACIÓN: REPARTO ESPORTAZIONI: EXPORT DIVISION



The Furlong, Droitwich,  
Worcestershire WR9 9BG.  
United Kingdom.

Telephone: +44 (0)1905 795432  
Fax (Direct): +44 (0)1905 770077  
Fax (General): +44 (0)1905 795757  
VAT No. GB 488 0557 09



EPDM SELF ADHESIVE SEAL  
997601X / 997602X

## TECHNICAL SPECIFICATION

### Introduction

**EPDM** is a high quality, high performance product manufactured from the families of materials known as **EPDM** elastomers and rubber vulcanizates. The important characteristics of this particular material are their excellent resistance to:

- Thermal ageing, with superior heat ageing properties and ability to withstand varying climatic changes, thus maintaining excellent deflection recovery performance.
- Excellent resistance to UV and Ozone attack, thus resulting in no migration and staining.

The Reddiplex Group range of **EPDM** gasketry is manufactured using high performance materials which have been specially formulated to meet the requirements of BS 7412:1991, BS 4255:Part 1:1986 and British Plastics Federation Glass document number Ref 345/1 November 1993.

The **EPDM** range of materials has been extensively tested to evaluate their performance over extended periods of service. When tested in accordance with the requirements of BS6375 & BS5368 they achieved a class 1 severe weather rating performance.

### Test approvals

British Board of Agreement Test Report No 1003 dated March 1991 Material Assessment Report  
BSI Test Report Number EP003833 dated January 1996 (BS7412: 1991: Clause 4)  
BPF Part 1 Ref 345/1 November 1993.  
Rohm Test Report dated October 1993 Polycarbonate & Acrylic compatibility

### Test performance characteristics - Extract from test report No EP003833

Tested to the requirements of BS7412: 1991: Clause 4 Materials, 4.3 Glazing gaskets and weather-stripping.

Item No	PROPERTY	REQUIREMENT	ACTUAL	RESULT
	<b>DEFLECTION RECOVERY</b>	5mins 60mins		
8.	24h at -10°C	60%min 75%min	5mins = 63.25% 60mins = 90.93%	PASS PASS
9.	24h at 23°C	60%min 75%min	5mins = 77.32% 60mins = 88.83%	PASS PASS
10.	14 days at 55°C after 60mins recovery	Class A 25% min Class B 40% min	62.27% 62.27%	PASS
13.	Ozone resistance	No signs of cracking or crazing	PASS	PASS
14.	Migration	5.0mg Maximum	1.0mg	PASS
15.	Staining	No change in colour or staining	PASS	PASS
16.	Shrinkage in length (%)	2% Maximum	0.10%	PASS

**EPDM** has been independently tested by BSI Hemel Hempstead in accordance with the requirements BS7412:1991 under test report number EP003833 dated January 1996. The **EPDM** compounds have also been independently tested for compatibility against both polycarbonate and acrylic sheeting and proved compatible (tested by ROHM, Germany)

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## Technical Properties of EPDM compound used for static and dynamic applications Conforms to the requirements of BS4255:Part 1:Class C

Item No	Property	Test Method	Requirement	Typical Result
1.	Hardness classification	BS 903: Part A26 Method M	70 +5 -4 (1RHD)	71
2.	Tensile Strength	BS 903: Part A2	10.5 (mPa)	10.8
3.	Elongation AT Break	BS 903: Part A2	200 (% minimum)	340
	<i>Compression Set</i>			
4.	22 Hrs @ 70°C	BS 903: Part A6	25% maximum	16.3
	<i>Heat Aged 70 Hrs @ 100°C</i>			
5.	Hardness	BS 903: Part A26 Method M	Shall not be more than 10 IRHD of the unaged value	+2
6.	Tensile Strength	BS 903: Part A2	Shall not reduce by more than 15% of the unaged value.	+1.8
7.	Elongation At Break	BS 903: Part A2	Shall not reduce by more than 40% of the unaged value	-10.8
8.	Static Ozone Resistance	BS 903: Part A43	Shall not show signs of cracking after 96hrs	PASS
9.	Low Temperature Hardness Change.	BS 5294	Shall not be more than 12 IRHD above the initial value at -10°C	6
10.	Staining	Test Method A1 of BS 903: Part A33	No visual evidence of staining	PASS

### Maintenance

It is recommended that EPDM products are cleaned with warm water in conjunction with mild soap liquids. Reddiplex Group Plc do not recommend cleaning using abrasive or chemical liquids which can react with the material causing adverse effects. The client should satisfy himself or herself that the intended cleansers to be used do not cause any adverse effects, prior to cleaning.

### Health & Safety Information

Handling and use - avoid contact with naked flames, sparks and any source which may cause ignition. Food or drink should not be consumed during the use or storage of these materials. During use of these materials gloves, barrier creams and any other suitable forms of PPE may be worn. If material is ingested seek medical advice. If eye contact occurs, irrigate with water and seek medical advice. Fire hazards - materials will burn and continue to burn once ignited. Fight fire using continuous water spray and/or carbon dioxide, dry chemicals, foam or sand and call the fire brigade.

Further information relating to all aspects of the data sheet is available upon request.

Reddiplex Group Plc operates a Quality Management System which meets the requirements of BS EN ISO:9001: 2000. Independently assessed by BSI Quality Assurance under Certificate Number FM10371.

Due to our policy of continuous improvements and developments of materials Reddiplex Group Plc reserves the right to amend technical specification without prior notice.