

## Light & Durable Closed Cell Polyethylene Backer Rod For Joint Sealants

Guardian PE Joint Cord is a closed cell polyethylene foam supplied in circular cord lengths.

### USES & ADVANTAGES

Guardian PE Joint Cord is used at the base of joint openings to provide the proper shape factor in a sealant. It is also water repellent, highly weather proof and chemical resistant.

#### Uses:

- Expansion joints.
- Horizontal paving or traffic bearing joints.
- Joints between exterior facing panels.
- Isolation joints.
- Control joints in masonry walls.
- Pipes, ducts and vent openings.
- Precast roofs.

#### Advantages include:-

- Economical and easy to install.
- Excellent shock absorbing and heat insulating properties.
- Chemical resistant.
- Provides proper shape factor.
- Provides support for sealants in horizontal joints.
- Acts as a water barrier.

### PROPERTIES

<b>Appearance:</b>	Light and durable grey backing rod
<b>Density:</b>	41-50 kg/m <sup>3</sup>
<b>Thermal Conductivity:</b>	0.027 W/mK at 10°C mean temperature and not subject to aging over a period more than 5 years <b>(ASTM C177)</b>
<b>Tensile Strength</b>	
Longitudinal Direction:	44.6 N/cm <sup>2</sup>
Lateral Direction:	38.7 N/cm <sup>2</sup>
<b>Elongation</b>	
Longitudinal Direction:	84.3 %
Lateral Direction:	77.0 %
<b>Shore A Hardness:</b>	25 <b>(ASTM D2240)</b>
<b>Tear Strength</b>	
Longitudinal Direction:	35.5 N/cm
Lateral Direction:	29.5 N/cm
<b>Water Absorption:</b>	0%
<b>Temperature Range:</b>	-80 / +85°C
<b>Ozone Resistance:</b>	No crack <b>(ASTM D1149)</b>
<b>UV Resistance:</b>	> 5 years <b>(ASTM G53-88)</b>
<b>Chemical Resistance:</b>	No change
<b>Oil Resistance:</b>	No change

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### APPLICATION

The diameter of the backer rod is recommended to be approximately 20 to 25% larger than the width of the joint.

It should be positioned so that the required minimum sealant depth can be obtained. The circular section of the backer rod provides a convex face giving a minimum strain shape for elastomeric sealants while reducing the stress at the bond interface.

### PACKAGING

<u>Size</u>	<u>Pack Size</u>
Diameter 6 mm.	100 metres / box.
Diameter 8 mm.	100 metres / box.
Diameter 10 mm.	100 metres / box.
Diameter 13 mm.	100 metres / box.
Diameter 15 mm.	100 metres / box.
Diameter 20 mm.	100 metres / box.
Diameter 25 mm.	50 metres / box.
Diameter 30 mm.	50 metres / box.
Diameter 50 mm.	2 metres / box.

### STORAGE & SHELF LIFE

Store in clean area & dry conditions.

**DO NOT PUNCTURE.**

Shelf Life is indefinite. In hot climate it is preferable not to leave exposed for long periods.

### HEALTH & SAFETY

There are no health hazards associated with **Guardian PE Joint Cord** in normal use.

### TECHNICAL SERVICE

**Guardian Coating Service Department** is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

### QUALITY ASSURANCE (OEM)

ISO 9001: 2015 verified by TUV Nord.

ISO14001:2015 verified by Lloyd's Register International.