



## *What we make, makes a difference*

*Flexi-Cell (UK) Ltd is a leading manufacturer of Solid Rubber Tubing, Closed Cell Sponge Rubber Blocks and Extruded Sealing Sections.*

*We offer a wide and varied range of rubber based products and services to meet the diverse requirements of today's demanding and challenging industrial sectors across the globe.*

*Although we operate as a flexible independent company, Flexi-Cell (UK) Ltd is a division of the Berwin Group, the UK's leading Custom Compounder with over 50 years experience in rubber technology. It's a connection which provides us with the benefit of stability, resources and financial strength whilst retaining the flexibility of a dedicated specialist division.*

## **Product Description**

As a result of close involvement with the automotive industry Flexi-Cell (UK) Ltd now specialises in tight tolerance solid rubber tubing manufactured in a variety of ID and OD combinations.

Considerable investment has been made in process controls and training to maximise efficiency and further enhance our commitment to product quality. An example of this being the acquisition of state-of-the-art in-line optical inspection equipment, which *continually measures the product* during processing.

All tubing, irrespective of end use, is subjected to the same stringent

controls as that applied to our automotive industry product. Any alpha-numeric identification can be printed onto the product including, if required, a simple logo or design.

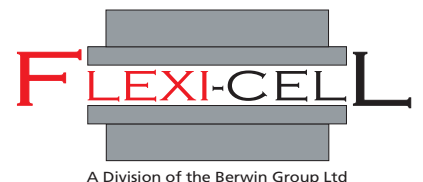
Flexi-Cell (UK) Ltd also has the facility and capability to include a non-stretch glass cord within the wall of a tube if desired.

As with all Flexi-Cell (UK) Ltd products, Solid Rubber Tubing is manufactured within a Quality Management System accredited to ISO 9001:2008.

- Available in EPDM, as standard
- Also available in CR and NBR
- Can be formulated to specific technical requirements



*Flexi-Cell products used in the automotive industry and other market sectors*



We do not manufacture standard section tubing, our flexibility is in the capability to supply a variety of ID & OD combinations to suit your exact requirement. Both the wall thickness and material are a determining factor as to whether a combination is practical for manufacture.

As a guide, the following criteria can be applied:

	Outside Diameter	Minimum Wall Thickness
	5mm – 10mm	1mm
<b>Above</b>	<b>10mm – 15mm</b>	<b>2mm</b>
Above	15mm – 20mm	3mm
<b>Above</b>	<b>20mm – 25mm</b>	<b>4mm</b>

Dimensions of all Solid Rubber Tubing manufactured by Flexi-Cell are in accordance with BS3734-1 / ISO 3302-1 class E1 tolerances. The majority of tubing is manufactured in EPDM with a nominal hardness of 60° 70° or 80° IRHD.

Typical physical properties being:

Reference	EP60	EP70	EP80
Hardness (IRHD)	60 +/- 5	70 +/- 5	80 +/- 5
<b>Tensile strength (MPa)</b>	<b>9.0</b>	<b>8.0</b>	<b>8.0</b>
Elongation @ break (%)	300 min	200 min	200 min
<b>Compression set (24hrs @ 70°C)</b>	<b>20.0 max</b>	<b>25.0 max</b>	<b>25.0 max</b>
Ozone resistance (No cracks 20% strain, 48hrs, 25pphm)	Pass	Pass	Pass

The information provided is given in good faith and is to the best of our knowledge true and accurate. However, since the conditions under which our products may be used are beyond our control, recommendations are made without warranty or guarantee. This statement does not affect the statutory rights of a customer.

## Flexi-Cell (UK) Ltd

### Head Office/Production Extrusions

Broadway, Globe Lane Industrial Estate, Dukinfield, Cheshire SK16 4UU

**Tel: +44 (0)161 342 1140**

Fax: +44 (0)161 342 1141 E-mail: info@flexi-cell.co.uk www.flexi-cell.co.uk

### Production Cellular Rubber Blocks

Unit 3, Shepley Industrial Estate North, Audenshaw, Manchester M34 5DR



FM 551887



A Division of the Berwin Group Ltd