

# Plastazote® MP45

## Low Density Polyethylene Foam

### Product Information

#### Typical Values

Plastazote® is a closed cell, cross-linked polyethylene block foam manufactured using Zotefoams unique production process.

The values provided in this product information represent data gathered from random samples of our production of Plastazote® MP45 foam and represent typical data. These are given to the best of our knowledge and should be considered as guidance for selecting a suitable grade for a given application.

Property	Test Standard	Units	Typical value
<b>Apparent Density</b>			(nominal)
Skin/Skin	BS EN ISO 7214:2012	kg/m <sup>3</sup>	45
<b>Cell Size</b> (Cell Diameter)	Internal	mm	0.2
<b>Compression Stress-Strain</b>	BS EN ISO 7214:2012	kPa	
25% compression	25 mm cell-cell		85
50% compression			158
<b>Tensile Strength</b>	BS EN ISO 7214:2012	kPa	1007
<b>Tensile Elongation</b>		%	212
<b>Compression Set</b>	BS EN ISO 7214:2012	% set	
25% comp., 22hr, 23°C	25 mm cell-cell		
½ hr recovery			8
24 hr recovery			3
<b>Tear Strength</b>	BS EN ISO 8067:2008 Method B	N/m	3871
<b>Shore Hardness</b>	BS EN ISO 868:2003		
OO Scale			63
<b>Recommended maximum operating temperature*</b>	Internal	°C	95

#### \* RECOMMENDED MAXIMUM OPERATING TEMPERATURE

The maximum operating temperature shown is defined as the temperature which will typically cause a linear shrinkage of 5% after a 24hr exposure period, using sample dimensions of 100mm x 100mm x 25mm. This figure is provided for general guidance only. The actual level of shrinkage the foam will undergo at any particular temperature is dependant on a number of system variables such as, sample dimensions, cell size, loading conditions and exposure period.

## EXCLUSION OF LIABILITY

Any information contained in this document is, to the best of the knowledge and belief of Zotefoams plc and of Zotefoams Inc. (together herein referred to as **ZOTEFOAMS**), accurate. Any liability on the part of **ZOTEFOAMS** or any subsidiary or holding company of **ZOTEFOAMS** for any loss, damage, costs or expenses directly or indirectly arising out of the use of such information or the use, application, adaptation or processing of any goods, materials or products described herein is, save as provided in **ZOTEFOAMS'** conditions of sale ("Conditions of Sale"), hereby excluded to the fullest extent permitted by law.

Where **ZOTEFOAMS'** goods or materials are to be used in conjunction with other goods or materials, it is the responsibility of the user to obtain from the manufacturers or suppliers of the other goods or materials all technical data and other properties relating to those other goods or materials. Save as provided in the Conditions of Sale no liability can be accepted in respect of the use of **ZOTEFOAMS'** goods or materials in conjunction with any other goods or materials.

Where **ZOTEFOAMS'** goods or materials are likely to come into contact with foodstuffs or pharmaceuticals, whether directly or indirectly, or are likely to be used in the manufacture of toys, prior written confirmation of compliance with relevant legislative or regulatory standards for those applications may be requested from **ZOTEFOAMS**, if appropriate. Save as provided in the Conditions of Sale no liability can be accepted for any damage, loss or injury directly or indirectly arising out of any failure by the user to obtain such confirmation or to observe any recommendations given by or on behalf of **ZOTEFOAMS**.

**ZOTEFOAMS MAKES NO WARRANTIES EXPRESS OR IMPLIED, EXCEPT TO THE EXTENT SET OUT IN THE CONDITIONS OF SALE, AND HEREBY SPECIFICALLY EXCLUDES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ANY GOODS, MATERIALS OR PRODUCTS DESCRIBED HEREIN.**

---

### Zotefoams plc

675 Mitcham Road,  
Croydon,  
Surrey  
CR9 3AL  
United Kingdom  
Telephone: +44 (0) 20 8664 1600  
Telefax: +44 (0) 20 8664 1616  
[www.zotefoams.com](http://www.zotefoams.com)

### Zotefoams Inc

55 Precision Drive  
Walton  
Kentucky  
41094  
USA  
Telephone: +1 859 371  
Freephone: (800) 362-8358 (US Only)  
Telefax: +1 859 371 4734

Zotefoams plc Management systems are covered by the following:



**Quality**  
FM 01870  
ISO 9001:2008



**Safety**  
OHS 52538  
OHSAS 18001:2007



**Environment**  
EMS 36270  
ISO 14001:2004