AZOTE®

Plastazote® LD45 FR

Flame-Retarded 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® LD45 FR** 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
Apparent Density			(nominal)
Skin/Skin	BS EN ISO 7214:2012	kg/m³	45
Cell Size (Cell Diameter)	Internal	mm	0.4
Compression Stress-Strain	BS EN ISO 7214:2012	kPa	
25% compression	25 mm cell-cell		88
50% compression			162
Tensile Strength	BS EN ISO 7214:2012	kPa	449
Tensile Elongation		%	158
Flammability	CS 25.853 App. F 1a 1ii		12 second test
Aviation **	FAR 25.853 App. F 1a 1ii		Pass at 3mm & 12mm
Flammability			HF1
UL94***	UL94 Ed.6		at 3mm
Compression Set	BS EN ISO 7214:2012	% set	
25% comp., 22hr, 23°C	25 mm cell-cell		
½ hr recovery			8
24 hr recovery			3
Tear Strength	BS EN ISO 8067:2008 Method B	N/m	2404
Shore Hardness	BS EN ISO 868:2003		
OO Scale			61
Recommended maximum operating temperature*	Internal	°C	105
Water absorption	ISO 2896:2001 Ed3.	%	<1
Thermal conductivity	ISO 8301:1991	W/mK	0.038
Mean temperature 10°C			

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

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

*** 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.
** To receive batch certification for this test please order the product with T51 code.
*** To receive batch certification for this test please order the product with T114 code.

Issue 1 Revision 0
December 2017