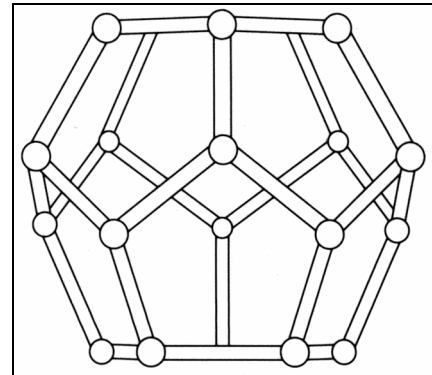


Plastazote® LD45FR

Flame Retardant Low Density Polyethylene Foam Property Data Sheet



Plastazote® is a closed cell, cross-linked polyethylene foam manufactured using Zotefoams unique production process. This data sheet characterises Plastazote foam LD45FR which is available in sheet form and is fabricated by modern techniques and can be thermoformed into shapes.

Property	Test Procedure	Units	LD45FR
Nominal Density - Skin/Skin	BS ISO 7214 1998	kg/m ³	45
Cell Size – Typical Diameter	Internal	mm	0.4
Compression Stress-Strain	BS ISO 7214 1998		
10% compression		kPa	69
25% compression		kPa	86
40% compression		kPa	121
50% compression		kPa	159
Compression Set	BS ISO 7214 1998		
25% comp., 22hr, 23°C	25 mm cell-cell		
½ hr recovery		% set	8.5
24hr recovery		% set	2.5
50% comp., 22hr, 23°C			
½ hr recovery		% set	20
24hr recovery		% set	11
Tensile Strength	ISO 7214 1998	kPa	435
Tensile Elongation		%	180
Tear Strength	BS EN ISO 8067 1995	N/m	1200
Shore Hardness OO Scale	ISO 868 1985		
10mm cell/cell thickness		OO	60
Recommended operating temperature range*	Internal	°C	+105 max -70 min
Thermal Conductivity	ISO 8302 1991	W /m.K	0.043
mean temp of 10°C			
Flammability**			
Aviation	FAR – 25.853 F 1a. 1ii JAR – 25.853 F 1a. 1ii CAA8 /2 – 2.2b		Complies Complies Complies
Automotive	FMVSS.302 – Burn rate	<100mm/min.	Pass: 2 mm and thicker
Construction	DIN 4102 pt14 – B1 UL94 HF1 + HF2		Pass: 6 to 20 mm thick Pass: 3 to 13 mm thick
Horizontal Burn Rate	ISO 7214 1998		
5mm thick		mm/sec	Extinguishes and
13mm thick		mm/sec	melts from flame



*** RECOMMENDED OPERATING TEMPERATURE RANGE**

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. Please refer to Technical Bulletin T2 for more detailed information.

**** TEST REPORTS OR CERTIFICATION AVAILABLE ON REQUEST**

HEALTH & SAFETY

A separate data sheet (T5) entitled "Health and Safety Information" should be consulted.

PRODUCT SPECIFICATION

This Property Data Sheet provides typical properties on representative samples of material. For a product specification please refer to data sheet T7.

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
CR9 3AL
United Kingdom
Telefon: +44 (0) 20 8664 1600
Telefax: +44 (0) 20 8664 1616